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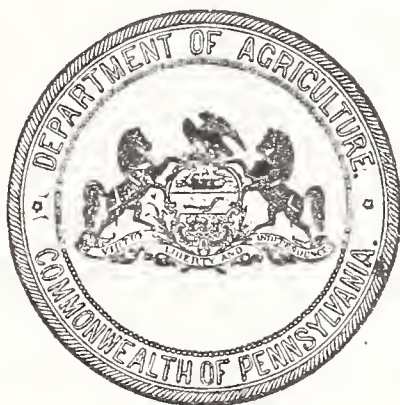
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FEEDING STUFFS REPORT
1917

JAMES W. KELLOGG, Chief Chemist
BUREAU OF CHEMISTRY



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DEPARTMENT OF AGRICULTURE

BUREAU OF CHEMISTRY

PRODUCTS ANALYZED.

OFFICIAL SAMPLES SECURED BY SPECIAL AGENTS

FERTILIZERS	FEEDING STUFFS	LINSEED OIL
PAINT	PUTTY	TURPENTINE
LIME		SEEDS

SPECIAL SAMPLES FOR RESIDENTS OF THE STATE

LIME, \$1.00	LINSEED OIL, \$1.00
FEEDING STUFFS, \$1.00	SEEDS, 25c

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LETTER OF TRANSMITTAL.

DEPARTMENT OF AGRICULTURE BUREAU OF CHEMISTRY

Harrisburg, Pa., April 25, 1918.

Hon. Charles E. Patton,
Secretary of Agriculture,
Harrisburg, Pa.

Dear Sir: I have the honor to submit herewith for your approval a report showing the results of the analyses and microscopical examinations of the samples of feeding stuffs received during 1917 from the Special Agents of the Department. In addition to the analytical results secured, a list of the brands registered during the year, the guarantees found upon sacks or attached cards, and tabulations and comments thereon are included.

It is recommended that this report be published in bulletin form for distribution.

Very respectfully,

JAMES W. KELLOGG,
Chief Chemist.



FEEDING STUFFS REPORT

1917

INTRODUCTION.

This report shows in detail the work accomplished during the year 1917 in the analysis of samples of concentrated commercial feeding stuffs under the requirements of the Feeding Stuffs Law of May 3, 1909. The Special Agents of the Department secured 1,200 samples from the shipments found on sale in the warehouses of feed dealers throughout the State which included 655 different brands and kinds of feeds. In selecting these samples 287 towns and cities in 55 counties were visited and in many localities no samples were secured as after an examination of the method of labeling the stock on hand and because samples of like brands had previously been secured, it was deemed unnecessary to make additional analyses. The samples after being thoroughly mixed were placed in glass bottles, sealed and forwarded by express in special boxes to the Bureau of Chemistry, together with reports covering each sample showing the information found printed or written upon sacks or attached cards. Each sample was analyzed for moisture, protein, fat and fiber for the purpose of determining the correctness of given guarantees and subjected to a microscopical examination in order to discover the presence of inferior or prohibited materials and whether or not the ingredients claimed would be found present. Reports of the results secured were submitted to the manufacturers or importers and to parties from whom they were secured, with comments where necessary with respect to requirements, corrections and registrations.

In addition to the official samples, 168 special samples were submitted by Pennsylvania manufacturers, importers, dealers and consumers for analysis under the provisions of the law making it possible for this information to be furnished for a fee of \$1.00. Reports of these analyses were returned as soon as possible after the work had been completed and within the time required, together with answers to inquiries regarding methods of labeling, registrations and rebates

where this information was required. In January and subsequently during the year, manufacturers and importers submitted 540 registrations covering 2,267 brands and kinds of feeds which were placed on file as being registered. Because of failure to comply with the requirements of the law, it was necessary to refuse a number of registrations and these refusals consisted largely of requests for registrations for mixed feeds where the fiber exceeded the amount permitted, and where oat hulls and cotton seed hulls were used as ingredients.

The results of the year's work shows normal conditions with respect to the general character of the feeds sold in the State being better than was anticipated during the war period except in the case of cottonseed meals. The samples of this product averaged approximately 2 per cent. less protein than those secured in 1916 and one-half of the samples were from shipments showing both minimum and maximum guarantees and upon analysis only three met the higher figures. The total number of deficiencies was less than observed last year, indicating more care in the guaranteeing and these deficiencies were more numerous in the samples of cottonseed meal and proprietary dairy feeds with molasses than the other classes of feeds. The use of both minimum and maximum guarantees has decreased. Several brands were not registered and a number of samples were secured from shipments not showing guaranteed analysis as required. The practice of mixing the so-called "mill run of screenings" with the wheat and rye offals has been continued although of the samples of this class of products examined, only traces of whole weed seeds were found present in a few. Approximately two-thirds of the samples analyzed were classed as "Mixed Feeds," the majority having distinct brand names. This class as a whole showed a less number of deficiencies than last year. There were 125 samples in which traces and small amount of whole weed seeds were found present and 13 samples showing large amounts of whole weed seeds, the majority of these violations being found in the poultry foods. Less than 100 additional samples showed minor variations from certified compositions. There were a few brands not registered found being disposed of containing excess amounts of oat hulls and one shipment was discovered which consisted largely of ground peanut hulls. There were no samples found, as during the previous season, which were damaged from the use of substitute molasses or the molasses residue resulting as a by-product in the manufacture of alcohol. The restriction in the use of certain by-products made necessary many changes in formula and registrations. The curtailment in the distilling and brewing industries reduced the available supply of distillers' and brewers' dried grains and the government regulations regarding the use of wheat materially reduced the amount of wheat and wheat by-products available for feeding purposes.

The selling prices showed marked increases in all classes of feeds and would average close to 50 per cent. higher judging from total averages, as compared with the price valuations of the samples secured in 1916.

The following pages include a list of the firms and the number of brands of feeds registered during 1917, tables showing counties visited and classification of samples analyzed and deficiencies and average analyses and retail prices. A discussion of the results of analysis of each class of feed also is included, and the large table shows in detail the chemical analyses and microscopical examinations of each sample received during the year.

ACKNOWLEDGMENTS.

Acknowledgment is herewith made and thanks extended for the advice and assistance received from the Secretary of Agriculture, Hon. Charles E. Patton, and from the General Agent, Hon. G. G. Hutchison, in accomplishing the year's feeding stuffs inspection work and to each member of the Bureau staff for their co-operation and assistance to the duties assigned. The following assistants took part in the work: V. B. Hausknecht, H. E. Gensler, J. E. Shull, William Weber, G. J. Kuhlman, Jr., W. E. Huber, and P. M. Fairlamb. The microscopical examination of each sample was made by H. E. Gensler, who also made all check determinations where required.

REGISTRATIONS.

During the calendar year 1917 registrations for feeding stuffs were received from 540 manufacturers and importers or jobbers who offered their products for sale in the State. These registrations included 2,267 different brands and kinds of feeds, being slightly less in number than those received during the previous season. A number of registrations were received from dealers and importers, including feeds already or subsequently registered by the original manufacturers, and in these cases the brands are listed and credited to the proper

firms. Registration is required for the sale of each brand of feeding stuffs sold in the State and should be filed with the Department the first of each calendar year. They may be submitted at any time during the year or at such a time as the feeds are to be placed on sale for the balance of the year remaining. All brands are required to be re-registered at the beginning of the new year. No charge is made for registrations and no licenses are issued. Following are the names of the firms together with the brands and names of feeds which were registered for the year covered by this report:

FEEDING STUFFS REGISTERED FOR 1917.

Acme-Evans Co., Indianapolis, Ind.

Acme Bran,
Acme Chick Feed,
Acme Cracked Corn,
Acme Cream Feed,
Acme Dairy,
Acme Feed,
Acme Horse & Mule Feed,
Acme Middlings,
Acme Molasses Grain Feed,
Acme Scratch Feed,
Acme Stock Feed,
E. Z. Chick Feed,
E. Z. Chop Feed,
E. Z. Scratch Feed,
Homlik Feed.

Acme Manufacturing Co., Wheaton, Ill.

Acme Calf Meal,
Acme Pig Meal.

Acme Milling Co., Olean, N. Y.

Acme Dry Mash,
Acme Feed,
Wheat Bran with Ground Screenings not exceeding Mill Run,
Wheat Flour Middlings with Ground Screenings not exceeding Mill Run,
Yellow Corn Feed Meal "S."

Akron Feed & Milling Co., Akron, Ohio.

C. O. & B. Stock Feed,
Portage Corn & Oats Chop,
Portage Scratch Feed,
Portage Stock Feed,
Portage Yellow Feed Meal,
Yellow Hominy Feed.

Alfocorn Milling Co., East St. Louis, Ill.

Alfa-Oats Horse & Mule Feed,
Alfocorn Chick Feed,
Alfocorn Dairy Feed,
Alfocorn Hen Feed,
Alfocorn Horse & Mule Feed Dry,
Alfocorn Special H. & M. Feed,
Ambrosia Horse & Mule Feed,
Corn & Oats Crop,
Full Pail Dairy Feed,
King Cotton Horse & Mule Feed,
Leader Horse & Mule Feed,
Sunshine Scratch Feed,
Sunshine Scratch Feed with Grit,
X-tra Corn, Horse & Mule Feed,
X-tra Good Horse & Mule Feed,
X-tra Green Horse & Mule Feed,
X-tra Oats, Horse & Mule Feed.

len Milling Co., Niagara Falls, N. Y.
 Allen's Full-Nest Mash for Layers,
 Allen's Full-Nest Nutro Chick Mash.

len & Wheeler Co., The, Troy, Ohio.
 Trojan Bran,
 Trojan Corn & Oats Feed,
 Trojan Cracked Corn,
 Trojan Feed Meal,
 Trojan Middlings,
 Trojan Mixed Feed.

ltoona Feed Mills, Altoona, Pa.
 Dairy Feed,
 Horse Chop.

merican Agricultural Chemical Co., The, New York, N. Y.
 Ground Meat Scraps,
 Protox Pure Ground Meat Scraps.

merican Hominy Co., Indianapolis, Ind.
 Cerealine Feed,
 Hexite Dairy Feed,
 Hexite Horse Feed,
 Hexite Jr. Horse Feed,
 Hexite Scratch Feed,
 Hexite Scratch Feed with Grit,
 Homco Chick Feed,
 Homco Cracked Corn (Chick Size),
 Homco Cracked Corn (Screened),
 Homco Cracked Corn (Not Screened),
 Homco Cracked Corn and Rolled Oats,
 Homco Dairy Feed,
 Homco Dry Mash,
 Homco Hominy Feed,
 Homco Hog Feed,
 Homco Horse Feed,
 Homco Jr. Horse Feed,
 Homco Poultry Developer,
 Homco Scratch Feed,
 Homcoline Feed,
 Maizeline Feed,
 Special Horse Feed,
 Standard Horse Feed,
 Standard Scratch,
 Standard Scratch with Grit.

American Linseed Co., New York, N. Y.
 Hypro Pure Old Process Linseed Meal,
 Old Process Oil Meal.

American Maize Products Co., New York, N. Y.
 Cream of Corn Gluten Feed.

American Milling Co., Peoria, Ill.
 Amco Alfalfa Molasses Feed,
 Amco Dairy Feed,
 Amco Fat Maker,
 Amco Old Process Linseed Meal,
 Amco Stock Feed,
 Cluck Cluck Scratch Feed,
 Cluck Cluck Scratch Feed with 5 Per Cent. Grit,
 Empire State Dairy Feed,
 Sucrene Calf Meal,
 Sucrene Chick Feed,
 Sucrene Chick Feed with 5 Per Cent. Grit,
 Sucrene Dairy Feed,
 Sucrene Hog Meal,
 Sucrene Horse Feed with Alfalfa,
 Sucrene Poultry Mash,
 Sucrene Scratch Feed,
 Sucrene Scratch Feed with 5 Per Cent. Grit,
 Tip Top Horse Feed with Alfalfa,
 Tip Top Sugared Feed.

- Anchor Roller Mills, Allentown, Pa.
Mixed Chop,
Pure Corn Chop,
Pure Wheat Bran,
Pure Wheat Midds.
- Anderson Brothers & Co., York, Pa.
A. B. C. Chick Feed,
A. B. C. Scratch Feed,
Hen-O-La Chick Feed,
Hen-O-La Scratch Feed,
Must Lay Mash Feed.
- Anderson & Son, J. B., Shickshinny, Pa.
Mixed Chop,
Poultry Mash,
Scratch Feed.
- Animal Products Co., Philadelphia, Pa.
Apco Poultry Meat.
- Ansted & Burke Co., The, Springfield, Ohio.
Bran,
Corn & Oats Chop,
Feed Meal,
Humpty Dumpty Chick Feed with Grit,
Humpty Dumpty Chick Feed, no Grit,
Humpty Dumpty Scratch Feed with Grit,
Humpty Dumpty Scratch Feed, no Grit,
Middlings,
Mixed Feed,
Ohio Farm Feed.
- Anthracite Brewing Co., Mount Carmel, Pa.
Brewers' Dried Grains.
- Arcady Farms Milling Co., Chicago, Ill.
Farm Mixing Feed,
Rkd Baby Chick Feed,
Rkd Baby Chick Feed with Grit, Shell and Charcoal,
Rkd Calf Meal,
Rkd Chick Feed,
Rkd Chick Feed with Grit and Charcoal,
Rkd Dairy Feed,
Rkd Horse Feed,
Rkd Poultry Feed,
Rkd Poultry Feed with Grit, Shell, Charcoal.
- Archer-Daniels Linseed Co., Minneapolis, Minn.
Old Process Ground Linseed Cake.
- Armour Fertilizer Works, Chicago, Ill.
Armour's Blood Meal,
Armour's Granulated Bone,
Armour's Meat Meal.
- Ashcraft-Wilkinson Co., Atlanta, Ga.
Cottonseed Feed,
Cottonseed Meal.
- Ashland Stock Food Co., Ashland, Ohio.
Ashland Poultry Food Digester,
Ashland Stock Food Digester.
- Atkinson Milling Co., Minneapolis, Minn.
Red Dog Flour,
Wheat Bran with Screenings,
Wheat Flour Middlings with Screenings,
Wheat Mixed Feed with Screenings,
Wheat Standard Middlings with Screenings.
- Atlantic Export Co., New York, N. Y.
Atexco Distillers' Dried Grains,
Doctor Spund Dried Brewers' Grains,
Rye Dried Distillers' Grains.

las Feed & Milling Co., Peoria, Ill.
 Atlas Corn Oil Meal,
 Atlas Distillers' Grains.

las Mills & Elevator A., Vincennes, Ind.
 Wheat Brau with Screenings not exceeding Mill Run.

nt Jemima Mills Co., St. Joseph, Mo.
 Davisko Wheat White Shorts,
 Mill Run Bran & Wheat Screenings,
 Standard Wheat Shorts,
 Wheat Bran & Wheat Screeuings,
 White Hominy Feed,
 Yellow Corn Chop.

ver, H. O., Ulster, Pa.
 Wheat Bran,
 Wheat Middliugs.

denoch Co., J. J., Chicago, Ill.
 Badenoch's C. & O. Chop.
 C-er-lay Developing Feed, no Grit,
 C-er-lay Developing Feed, with Grit,
 C-er-lay Fine Chick Feed, no Grit,
 C-er-lay Fine Chick Feed, with Grit,
 C-er-lay Poultry Feed, uo Grit,
 C-er-lay Poultry Feed, with Grit,
 Daily Egg Poultry Feed, no Grit,
 Daily Egg Poultry Feed, with Grit,
 Gloskoat Alfalfa Horse Feed,
 Graingold Dairy Feed,
 Grain Dairy Ration,
 Kumboss Dairy Feed,
 Kurvnek Horse Feed.

aily, E. I., Cleveland, Ohio.
 Bailey's B. B. B. Dairy Feed.

ldwin Flour Mills, Minneapolis, Minn.
 Baldwin Wheat Bran with not exceeding Mill Run of Ground Screenings,
 Baldwin Wheat Flour Middlings with not exceeding Mill Run of Ground
 Screenings,
 Baldwin Wheat Red Dog,
 Baldwin Wheat Shorts with not exceeding Mill Run of Ground Screeuings.

allard & Ballard Company, Louisville, Ky.
 Ballard's Brau,
 Ballard's Kentucky Farm Feed,
 Ballard's Mixed Wheat Feed.

altimore Pearl Hominy Co., Baltimore, Md.
 Spring Garden C. & O. Feed,
 Spring Garden Cracked Corn,
 Sprig Garden Homiuy Feed,
 Spring Garden Horse Feed.

altic Mills, Vincennes, Ind.
 Blue Diamond Little Chick Feed,
 Blue Diamond Poultry Feed,
 Feed Meal,
 Hominy Feed.

anner Milling Co., Buffalo, N. Y.
 Banner Bran,
 Banner Flour Midds.,
 Banner Mixed Feed,
 Banner Standard Midds.

arber Milling Co., Minneapolis, Minn.
 Pure Wheat Bran Flakes,
 Pure Wheat Low Grade Flour,
 Pure Wheat Middlings,
 Pure Wheat Mixed Feed,
 Pure Wheat White Middlings.

Baringer, M. F., Philadelphia, Pa.

Copra Cake Meal,
Corn Bran,
Crown Dried Brewers' Grains,
Dried Brewers' Grains,
Goodlow Cottonseed Feed,
Hominy Feed,
M. F. B. Dried Brewers' Grains,
M. F. B. Dairy Feed,
M. F. B. Prime Cottonseed Feed,
M. F. B. Prime Cottonseed Meal,
M. F. B. Wheat Bran with Mill Run Screenings,
M. F. B. Wheat Middlings with Mill Run Screenings.

Barley Foods Company, Morgantown, W. Va.

Barley Middlings,
Barley and Oats Chop.

Barnesboro Milling Co., Barnesboro, Pa.

Corn Chop,
Oats Chop.

Bartholomew, C. D., Centre Hall, Pa.

Centre Hall Scratch Feed.

Bartlett Co., J. E., Jackson, Mich.

Farmers' Choice Cottonseed Meal,
Farmers' Prime Cottonseed Meal,
Farmers' Straight Cottonseed Feed,
Malt Dairy Feed,
National Gluten Feed.

Baugh & Sons Co., Philadelphia, Pa.

Baugh's Meat Meal for Poultry,
Baugh's XX Beef Serap for Poultry,
Baugh's Special Ground Bone for Poultry,

Bay State Milling Company, Winona, Minn.

Red Dog Flour,
Rye Middlings,
Winona Coarse Wheat Bran,
Winano Fancy Mixed Wheat Feed & Wheat Screenings,
Winona Fancy White Flour Middlings,
Winona Wheat Middlings and Wheat Screenings.

Bean Co., H. U., Philadelphia, Pa.

Oat Feed.

Beck Cereal Co., Detroit, Mich.

Royal Chop Feed.

Becker Milling Co., C., Red Bud, Ill.

Pure Wheat Bran with Ground Screenings not exceeding Mill Run,
Pure Wheat Shorts.

Berg Company, The, Philadelphia, Pa.

Berg's 3 Medal Beef Seraps,
Berg's 3 Medal Poultry Meat.

Bernet, Craft & Kauffman Mfg. Co., Mt. Carmel, Ill.

Middlings,
Mixed Feed (Bran & Midds.),
Mt. Carmel Bran.

Biddle, T. M., Altoona, Pa.

Acme Horse Chop,
Creseent Corn & Oats Chop,
Eclipse Breakfast Food,
Eelipse Chick Feed,
Eelipse Poultry Food,
Gem Middlings,
Gilt-Edge Corn Chop,
My Best Horse Feed.

Big Diamond Mills Co., Minneapolis, Minn.
 Big Diamond Bran,
 Big Diamond Flour Middlings,
 Big Diamond Mixed Feeds,
 Big Diamond Standard Middlings.

The Birkett Mills, Penn Yan, N. Y.
 Buckwheat Offal Feed,
 Hominy Meal.

Blaine, Mackay, Lee Company, North East, Pa.
 Mix Feed,
 Wheat Bran,
 Wheat Middlings.

Blake Milling Co., The, Edwardsville, Ill.
 Extra Coarse Wheat Bran with Ground Screenings not exceeding Mill Run,
 Winter Wheat Middlings.

Blamberg Brothers, Inc., Baltimore, Md.
 Cornell Brand Beef Scraps,
 Cornell Brand Chick Feed,
 Cornell Brand Developing Mash,
 Cornell Brand Dry Mash,
 Cornell Brand Meat & Bone Scraps,
 Cornell Brand Scratch Feed,
 Cornell Brand Special Beef Scraps,
 Cornell Buttermilk Chick Starter,
 Cornell Buttermilk Growing Feed,
 Cornell Buttermilk Laying Mash,
 Exlnt Brand Dry Mash,
 Exlnt Brand Scratch Feed.

Blank & Gottshall, Sunbury, Pa.
 B. & G. Baby Chick Feed,
 B. & G. Chick Feed,
 B. & G. Chick Mash Food,
 B. & G. Dairy Food,
 B. & G. Developing Food,
 B. & G. Hen Food,
 B. & G. Horse Food,
 B. & G. Mash Food,
 B. & G. Pigeon Food,
 Bran,
 Buckwheat Middlings,
 Corn Bran,
 Middlings,
 Rye Middlings.

Blatchford Calf Meal Factory, Waukega, Ill.
 Blatchford's Calf Meal,
 Blatchford's Dairy Brand Calf Meal,
 Blatchford's Egg Mash,
 Blatchford's Milk Mash,
 Blatchford's Pig Meal,
 Blatchford's Topping Off Meal.

Bolivar Milling Co., Inc., Bolivar, N. Y.
 Corn Meal,
 Cracked Corn,
 Special Feed.

Bolgiano & Son., J., Baltimore, Md.
 Square Deal Beef Scraps,
 Square Deal Chick Food,
 Square Deal Chick Starter,
 Square Deal Pigeon Food,
 Square Deal Poultry Food.

Bosler Co., C. W., Ogontz, Pa.
 Alfalfa Horse Feed,
 Alfalfa Molasses Feed,
 Allusit Dry Mash,
 Allusit Hen Feed.

- Bradford & Son, Centre Hall, Pa.
Keystoue Chop,
Winter Wheat Bran,
Winter Wheat Middlings.
- Brandt & Stedman, Mt. Joy, Pa.
B. & S. Dry Mash,
B. & S. Growing Feed.
- Brehm, H. F., Waterloo, N. Y.
Brehm Beef Scrap & Bone.
- Brode & Co., F. W., Memphis, Tenn.
Jay Brand Cottonseed Feed,
Owl Brand Cottonseed Meal.
- Buckeye Cereal Co., The, Massillon, Ohio.
Bar X Dairy Feed,
Beaver Valley Dairy Feed,
Beaver Valley Horse Feed,
Buckeye Chop Feed,
Buckeye Scratch Feed,
Buckeye Stock Feed,
Energy Horse Feed,
Malto Dairy Feed,
Sweet Moselle Horse Feed.
- Buckeye Cotton Oil Co., The, Cincinnati, Ohio.
Buckeye Prime Cottonseed Meal,
Buco Cottonseed Feed,
Cottouseed Feed.
- Buffalo Cereal Co., Buffalo, N. Y.
"B" Corn Meal,
Bufecco Chick Feed,
Bufecco Chop Feed,
Bufecco Creamery Feed,
Bufecco Dairy Feed,
Bufecco Hominy Feed,
Bufecco Horse Feed,
Bufecco Intermediate Scratching Grains,
Bufecco Laying Mash,
Bufecco Pigeon Feed,
Bufecco Poultry Mash,
Bufecco Scratching Grains,
Bufecco Steam Cooked Feed,
Bufecco Stock Feed,
Bufecolene Horse Feed,
Iroquois Chick Feed,
Iroquois Poultry Mash,
Iroquois Scratching Grains,
Mohawk Corn Meal,
Seneca Corn Meal,
Target Scratching Grains.
- Bushkill Milling Co., Easton, Pa.
Chick Feed,
Clear Grain Scratch Food,
Mixed Feed,
Poultry Mash.
- Campbell & Co., C. L., Little Rock, Ark.
Double Hump Camel Brand Cottonseed Meal,
Single Hump Camel Brand Cottonseed Meal.
- Campbell Mfg. Co., L. G., Owatonna, Minn.
Flour Middlings,
Low Grade Flour,
Pure Wheat Bran.
- Candee Incubator & Brooder Co., Eastwood, N. Y.
Candee Braud Chick Feed.
- Cannon Valley Milling Co., Minneapolis, Minn.
Winsome Wheat Bran with Ground Screenings not Exceeding Mill Run,
C. V. Bran with Ground Screenings not exceeding Mill Run.

Capital City Mlg. & Grain Co., St. Paul, Minn.
St. Paul Queen Mixed Feed.

Cataract City Milling Co., Niagara Falls, N. Y.
Wheat Bran with Ground Screenings not exceeding Mill Run,
Wheat Mixed Feed with Ground Screenings not exceeding Mill Run,
Wheat Standard Middlings with Ground Screenings not exceeding Mill Run,
Wheat White Middlings with Ground Screenings not exceeding Mill Run.

Cavalier Milling Co., Cavalier, N. D.
Bran,
Middlings,
Mixed Feed.

Cereal Mills Co., Wausau, Wis.
Flour Middlings,
Hominy Feed,
Red Dog Flour,
Wheat Bran with not exceeding Mill Run Ground Screenings,
Wheat and Rye Middlings with not exceeding Mill Run Ground Screenings.

Chamberlin Co., F. B., St. Louis, Mo.
Chamberlin's Perfect Chick Feed,
Chamberlin's Perfect Hen Feed,
Chamberlin's Perfect Mash Egg Feed,
Chamberlin's Perfect Pigeon Feed.

Champion Mfg. Co., Barto, Pa.
Chickseat.

Champion Roller Milling Co., Richmond, Ind.
Wheat Bran,
Wheat Middlings or Shorts.

Chapin & Company, Hammond, Ind.
Acorn Dairy Ration,
Ajax Flakes (Distillers' Dried Grains),
Centaur Stock Feed,
Green Diamond Brand Cottonseed Meal,
Green Diamond Hominy Meal,
Lactola Dairy Feed,
Malt Sprouts,
Pure Linseed Meal,
Unicorn Dairy Ration.

Chase, Hubbard Mfg. Co., Elmira, N. Y.
Blue Ribbon Poultry Food.

Hasbro Brothers, Attica, N. Y.
Corn, Oats & Barley Feed.

Hristenson Co., C. S., Madelia, Minn.
Wheat Bran,
Wheat Flour Middlings,
Wheat Middlings.

Hristian & Co., George C., Minneapolis, Minn.
Berkshire Wheat Flour Middlings with Ground Screenings not exceeding Mill Run,
Jersey Wheat Bran with Ground Screenings not exceeding Mill Run,
Poland Wheat Standard Middlings with Ground Screenings not exceeding Mill Run,
Pure Wheat Red Dog Flour.

Hristian & Co., L., Minneapolis, Minn.
Matchless Bran,
Matchless Flour Middlings,
Matchless Red Dog Flour,
Matchless Standard Midds.

Cincinnati Animal Food Co., Cincinnati, Ohio.
Porkopolis Brand Digester Tankage,
Porkopolis Brand Meat Scraps.

- Claro Milling Co., Waseca, Minn.
 Claro Mixed Feed,
 Claro Red Dog Flour,
 Claro Wheat Bran with Ground Screenings,
 Claro Wheat Flour Middlings,
 Claro Wheat Standard Middlings with Ground Screenings.
- Cleveland Milling Co., Cleveland, Ohio.
 Choice White Middlings made from Wheat with Ground Screenings not exceeding Mill Run,
 Special Fine Middlings made from Wheat with Ground Screenings not exceeding Mill Run,
 Standard Middlings made from Wheat with Ground Screenings not exceeding Mill Run,
 Wheat Bran with Ground Screenings not exceeding Mill Run.
- Cleveland Provision Co., The, Cleveland, Ohio.
 Premium Digester Tankage,
 Premium Meat Scrap.
- Clinton Sugar Refining Co., Clinton, Iowa.
 Clinton Corn Gluten Feed,
 Clinton Corn Oil Cake Meal,
 Clinton Hog Meal.
- Clover Leaf Milling Co., Buffalo, N. Y.
 Big Clover Complete Ration,
 Buffalo Horse Feed,
 Clover Leaf Mills Calf Meal,
 Clover Leaf Mills Dairy Feed,
 Clover Leaf Mills Dairy Ration,
 Clover Leaf Mills Horse Feed,
 Clover Leaf Mills Stock Feed,
 Peerless Horse Feed.
- Cole Milling Co., H. C., Chester, Ill.
 Wheat Bran,
 Wheat Middlings.
- Collegeville Mills, Collegeville, Pa.
 Morex Chicken Mash.
- Colton Brothers Co., The, Bellfontaine, Ohio.
 Cracked Corn,
 Feed Meal,
 Flaked Corn & Oats Feed,
 King Chop,
 Mixed Feed with Ground Screenings not exceeding Mill Run,
 Wheat Bran, including Ground Screenings not exceeding Mill Run,
 Wheat Middlings, including Ground Screenings not exceeding Mill Run.
- Columbia Milling Co., Columbia, Pa.
 Chick Feed,
 Hen Feed.
- Commander Mill Co., Minneapolis, Minn.
 Bran with Ground Screenings not exceeding Mill Run,
 Flour Midds. with Ground Screenings not exceeding Mill Run,
 Low Grade Wheat Product,
 Mixed Feed with Ground Screenings not exceeding Mill Run,
 Standard Midds. with Ground Screenings not exceeding Mill Run.
- Commercial Milling Co., Detroit, Mich.
 Henkel's Chop Feed,
 Henkel's Fine White Feed,
 Standard Wheat Middlings with Ground Screenings,
 Wheat Fine Middlings,
 Wheat Mixed Feed with Ground Screenings not exceeding Mill Run.
- Conkey Company, The, G. E., Cleveland, Ohio.
 Conkey's Buttermilk Starting Food (for Chicks).
- Conklin & Son, Inc., E. W., Binghamton, N. Y.
 Arrow Chick Food,
 Arrow Egg Food,
 Atlas Scratch Grain.

Consolidated Dressed Beef Co., Philadelphia, Pa.
 Consolidated Beef Scrap,
 Consolidated Meat and Bone Scrap.

Continental Cereal Co., Peoria, Ill.
 Continental Gluten Feed.

Coombs Milling Co., W. A., Coldwater, Mich.
 Buckwheat Feed,
 Wheat Bran with Ground Screenings not exceeding Mill Run,
 Wheat Middlings with Ground Screenings not exceeding Mill Run,
 Wheat Mixed Feed with Ground Screenings not exceeding Mill Run.

Coppes Bros. & Zook, Napanee, Ind.
 Bran,
 Middlings.

Corby Company, The, Washington, D. C.
 Corby Dried Grains from the manufacture of Yeast.

Corn Products Refining Company, New York, N. Y.
 Argo Corn Oil Cake Meal,
 Buffalo Corn Gluten Feed,
 Diamond Corn Gluten Meal,
 Diamond Hog Meal,
 Globe Corn Gluten Feed.

Corno Mills Co., The, St. Louis, Mo.
 Corno Chick Feed,
 Corno Dairy Feed,
 Corno Hen Feed,
 Corno Horse and Mule Feed,
 Corno Stock Feed,
 Corno Sweet Feed.

Cotton Seed Products Co., The, Louisville, Ky.
 Prime Cottonseed Meal.

Cover Supply Co., Inc., Baltimore, Md.
 C. S. C. Feed.

Crookston Milling Co., Crookston, Minn.
 Coarse Bran,
 Fine Middlings,
 Flour Middlings.

Crouch Brothers Co., Erie, Pa.
 Pure Corn & Oats Chop,
 Pure Corn Meal,
 Wheat Bran with Ground Screenings not exceeding Mill Run,
 Wheat Middlings with Ground Screenings not exceeding Mill Run.

Dannals Milling Co., Altoona, Pa.
 Corn Chop,
 Corn and Oats Chop,
 Superior Chick Food,
 Superior Hen Food,
 Superior Horse Chop.

Darling & Company, Chicago, Ill.
 Darling's Blood Meal,
 Darling's Granulated Bone,
 Darling's High Protein Meat Scraps,
 Darling's Meat Crisps,
 Darling's Standard Meat Scraps,
 Darling's 40 Per Cent. Protein Digester Tankage,
 Darling's 60 Per Cent. Protein Digester Tankage.

Davis, S. P., Little Rock, Ark.
 Beauty Brand Cottonseed Feed,
 Good Luck Brand Cracked Screened Cake,
 Good Luck Brand Cottonseed Meal,
 Veribest Brand Cottonseed Meal,
 Veribest Brand Cracked Screened Cake.

Deerfield Milling Co., Knoxville, Pa.
 Wheat Bran,
 Wheat Middlings.

Denver Alfalfa Milling & Products Co., The, Hartman, Colo.
Alfalfa Meal.

Deposit Milling Co., Deposit, N. Y.

Corn Meal,
Cracked Corn,
Granulated Corn Meal,
No. 2 Mixed Hen Feed,
Pure Corn & Oats Ground,
Pure Grain Mixed Hen Feed,
Scratch Grains,
Wheat Bran,
Wheat Middlings.

Deutsch & Sickert Co., Milwaukee, Wis.

Barley Feed,
Bourbon Distillers' Dried Grains,
Flour Middlings,
Hominy Feed,
Malt Sprouts,
Pure Dried Brewers' Grains,
Pure Wheat Bran,
Pure Wheat Middlings,
Red Dog Flour,
Rye Middlings,
Spirits Distillers' Dried Grains,
Wheat Bran with Ground Screenings,
Wheat Middlings with Ground Screenings.

Dewey Brothers Co., The, Blanchester, Ohio.

Bourbon Three D Grains,
Buckeye Gluten Feed,
Corn Germ Oil Meal,
Corn Three D Grains,
Dewey's Digester Tankage,
Dewey's Horse & Mule Feed,
Dewey's Ready Ration,
Dewey's Stock Feed,
Eagle Three D Grains,
Fancy Mixed Feed,
Heavy Mixed Feed,
Hiprotein Wheat Middlings,
Queen Cottonseed Meal,
Queen Three D Grains,
Winter Wheat Bran,
Winter Wheat Middlings.

Dickinson Co., The Albert, Chicago, Ill.

Alfalfa Meal,
Colonial Chick Feed, with Grit,
Colonial Chick Feed, no Grit,
Colonial Developing Feed, no Grit,
Colonial Developing Feed, with Grit,
Colonial Scratch Feed, no Grit,
Colonial Scratch Feed, with Grit,
Crescent Chick Feed, no Grit,
Crescent Chick Feed, with Grit,
Crescent Scratch Feed, no Grit,
Crescent Scratch Feed, with Grit,
Globe Chick Feed, no Grit,
Globe Chick Feed, with Grit,
Globe Developing Feed, no Grit,
Globe Developing Feed, with Grit,
Globe Egg Mash,
Globe Pigeon Feed, no Grit,
Globe Scratch Feed, no Grit,
Globe Scratch Feed, with Grit,
Hobby Horse Feed,
Honeysuckle Feed,
King Pigeon Feed, no Grit,
King Pigeon Feed, with Grit,
Oasis Horse Feed,
Pine Tree Chick Feed, no Grit,
Pine Tree Chick Feed, with Grit,
Pine Tree Scratch Feed, no Grit,

Dickinson Co.—Continued.

Pine Tree Scratch Feed, with Grit,
 Queen Poultry Mash,
 Rival Horse Feed,
 Stag Stock Feed,
 White Cross Chick Feed, no Grit,
 White Cross Chick Feed, with Grit,
 White Cross Horse Feed,
 White Cross Scratch Feed, no Grit,
 White Cross Scratch Feed, with Grit.

Diehl, Omwake & Diehl, Chambersburg, Pa.
 D. O. D. Dairy Feed.

Dixie Cotton Oil Co., Montgomery, Ala.
 Velvet Bean Feed.

Dixie Mills Co., East St. Louis, Ill.
 Anchor Dairy Feed,
 Anchor Horse & Mule Feed,
 Clipco Molasses Feed,
 Competition Horse Feed,
 Dixie Dairy Feed,
 Dixie Hen Feed,
 Dixie Horse & Mule Feed,
 Polo Dairy Feed.

Dold Packing Co., Jacob, Buffalo, N. Y.
 Dold Quality Chick Feed,
 Dold Quality Digester Tankage,
 Dold Quality Meat and Bone Meal,
 Dold Quality Meat and Bone Scrap,
 Dold Quality No. 2 Meat and Bone Scrap,
 Dold Quality Poultry Boue,
 Dold Quality Soluble Blood Flour.

Douglas Company, Cedar Rapids, Iowa.
 Douglas Corn Gluten Feed.

Dousman Milling Co., The John P., DePere, Wis.
 Dousman's Red Dog Flour,
 Dousman's Wheat Bran,
 Dousman's Wheat Middlings.

DuBois Brewing Co., DuBois, Pa.
 Dried Brewers' Grains.

Duff, G. A., Chatham Run, Pa.
 Mixed Chop,
 Pure Wheat Bran,
 Pure Wheat Middlings.

Duhne, Francis, Milwaukee, Wis.
 Malt Sprouts,
 Onyx Dried Grains,
 Tomahawk Brand Pure Dried Brewers' Grains.

Duluth Superior Milling Co., Duluth, Minn.
 Boston Mixed Feed,
 Duluth Imperial Bran,
 Flour Middlings,
 Red Dog Flour,
 S. Middlings.

Duluth Universal Milling Co., Duluth, Minn.
 Duluth Universal Bran with Ground Screenings,
 Duluth Universal Flour Middlings with Ground Screenings.

Duncannon Flouring Mill Co., Duncannon, Pa.
 Chick Chuck Feed,
 Chick Food,
 Hen Food.

Dunlop Mills, The, Richmond, Va.
 Dunlop Arrow Ship Stuff and Ground Recleaned Screenings not exceeding
 Mill Run,
 Dunlop Arrow Wheat Bran.

Dunwoody Co., Ezl., Philadelphia, Pa.

Brewers' Dried Grains,
Buckwheat Feed,
Digester Tankage,
Fish Scrap,
Poultry Meat,
Pure Alfalfa Meal,
Special Chick Feed, with Grit,
Special Developing Chick Feed, with Grit,
Special Horse Feed,
Special Pigeon Feed,
Special Pigeon Feed, without Corn,
Special Poultry Mash Feed,
Special Poultry Scratch Feed, with Grit,
White Hominy Feed.

Eagle Roller Mill Co., New Ulm, Minn.

Hominy Feed,
No. 2 Feed (Corn & Oats).
Red Dog Superb Flour,
Flour Middlings with Ground Screenings not exceeding Mill Run,
Rye Feed with Ground Screenings not exceeding Mill Run,
Wheat Bran with Ground Screenings not exceeding Mill Run,
Wheat Middlings with Ground Screenings not exceeding Mill Run.

Early & Daniel Co., The, Cincinnati, Ohio.

Ben Hur Horse and Mule Feed,
Ce-re-a-lia Egg Mash,
Ce-re-a-lia Sweets,
Eaden Chick,
Eaden Scratch,
Tuxedo Chick,
Tuxedo Scratch.

Eberts, H. F. H., Little Rock, Ark.

Bossy Brand Cottonseed Feed.

Eby, Elmer, Litiz, Pa.

Poultry Mash,
10% Poultry Mash.

Eby & Son, Jonas F., Lancaster, Pa.

Conestoga Gluten Feed,
Crystaloid Dairy Feed.

Eckhart Milling Co., B. A., Chicago, Ill.

Bran with Ground Screenings not exceeding Mill Run,
Mixed Feed, Bran and Middlings with Ground Screenings not exceeding Mill Run,
Rye Middlings,
Wheat and Rye Flour Middlings,
Wheat and Rye Middlings with Ground Screenings not exceeding Mill Run.

Elba Manufacturing Co., Charlotte, N. C.

Cottonseed Feed,
Cottonseed Meal.

Elkland Roller Mills, Elmira, N. Y.

Buckwheat Middlings,
Cow-N-S-Que Dairy Feed,
Pure Wheat Bran,
Pure Wheat Middlings.

Ellis & Son, David, Indiana, Pa.

Bran,
Corn Chop,
Corn and Oats Chop,
Mixed Chop,
Royal Meat Mash,
Royal Poultry Food,
Wheat Middlings.

Embrey & Company, Inc., E. A., Shreveport, La.

Econokake Cottonseed Cake,
Economeel Cottonseed Meal,
Fataso Cottonseed Meal or Cake,
Xlso Cottonseed Meal or Cake.

Empire Cotton Oil Co., Atlanta, Ga.

Gilt Edge Brand Cottonseed Feed,
Gilt Edge Brand Cottonseed Meal.

Empire Grain & Elevator Co., Binghamton, N. Y.

Egee Horse Feed,
Egee Mash,
Egee Mixed Feed,
Egee Scratch Feed,
Egee Stock Feed,
Neverfail Egg Producer.

Empire Milling Co., Minneapolis, Minn.

Bran with Ground Screenings not exceeding Mill Run,
Flour Middlings with Ground Screenings not exceeding Mill Run,
Standard Middlings with Ground Screenings not exceeding Mill Run.

Empire Mills, Olean, N. Y.

Brewers' Dried Grains,
Chicken Feed Mixture No. 2,
Corn Feed Meal,
Empire Feed,
Snowball Flour Middlings.

Emporium Milling Co., Emporium, Pa.

Emporium Feed,
No. 1 Provender Pure Corn and Oats Chop.

England & Co., Charles, Baltimore, Md.

Distillers' Rye Grains.

Enterprise Milling Co., Oil City, Pa.

Dr. Hess Poultry Panacea,
Dr. Hess Stock Tonic,
Venango Molasses Horse Feed.

Equity Co-Operative Exchange, Wellsboro, Pa.

Equity Laying Mash,
Equity Mixture.

Eshelman, John W., Lancaster, Pa.

J. W. E.'s Alfalfa Horse Feed,
J. W. E.'s Alfalfa Molasses Horse Feed,
J. W. E.'s Calf Meal,
J. W. E.'s Chick Feed, no Grit,
J. W. E.'s Chick Feed, 5 Per Cent. Grit,
J. W. E.'s Corn Bran,
J. W. E.'s Corn and Oats Chop,
J. W. E.'s Developing Feed, no Grit,
J. W. E.'s Digester Tankage,
J. W. E.'s Fish Scrap,
J. W. E.'s Hog Meal,
J. W. E.'s Home-Made Dairy Feed,
J. W. E.'s Laying Mash,
J. W. E.'s Meat and Bone Scrap,
J. W. E.'s Pigeon Feed, no Grit,
J. W. E.'s Poultry Bone,
J. W. E.'s Scratch Feed, with 5 Per Cent. Grit,
J. W. E.'s Scratch Feed, no Grit,
J. W. E.'s Special Pigeon Feed, no Grit,
J. W. E.'s Stock Feed.

Evans Milling Co., Indianapolis, Ind.

Evans' Hominy Feed.

Everett, Aughenbaugh & Co., Waseca, Minn.

E-A Co. Mixed Feed,
E-A Co. Wheat Bran,
E-A Co. Wheat Middlings.

Excello Feed Milling Co., St. Joseph, Mo.

Alfalfa Meal,
Excello Chick Feed,
Excello Dairy Feed,
Excello Hen Feed,
Excello Horse Feed.

Excello Feed Milling Co.—Continued.

Excello Molasses Feed,
Excello Poultry Mash,
Reliable Hen Feed,
Reliable Horse Feed,
Reliable Molasses Feed,
Sho-Me Horse Feed.

Fairplay Feed Mills, Linton, Ind.

Fairplay Chick Feed, with Grit,
Fairplay C. O. & B. Chop Feed,
Fairplay Horse Feed,
Fairplay Scratch Feed,
Fairplay Scratch Feed, with Grit and Oyster Shells,
Feed Meal,
Lay-Every-Day Scratch Feed,
Lay-Every-Day Scratch Feed, with Grit and Oyster Shells,
Wheat Middlings,
Winner Chop.

Farabaugh, F. E., Patton, Pa.

Dandy Dry Mash,
Mixed Hen Feed.

Faramel Manufacturing Co., Buffalo, N. Y.

Faramel Horse Feed.

Farmers' Cotton Oil Co., Wilson, N. C.

Prime Cottonseed Meal.

Farmers' Feed Co., New York, N. Y.

Bull Brand Dried Brewers' Grains.

Federal Stock Food Co., Mifflinburg, Pa.

Federal Poultry Tonic,
Federal Stock Tonic.

Feeds Products Milling Co., Chicago, Ill.

Eatall Dairy Feed,
Eatall Horse Feed,
Golden Egg Coarse Chick Feed, no Grit,
Golden Egg Coarse Chick Feed, with Grit,
Golden Egg Fine Chick Feed, no Grit,
Golden Egg Fine Chick Feed, with Grit,
Golden Egg Mash Feed, with Shell,
Golden Egg Pigeon Feed, with Grit,
Golden Egg Scratch Feed, no Grit,
Golden Egg Scratch Feed, with Grit and Shell,
Kingfalfa Horse Feed,
Kingfalfa Meadow Feed,
Kukoo Fine Chick Feed, no Grit,
Kukoo Fine Chick Feed, with Grit,
Kukoo Scratch Feed, no Grit,
Kukoo Scratch Feed, with Grit,
Polo Stock Feed.

Feeders' Supply Co., Kansas City, Mo.

Equity Brand Cottonseed Feed.

Ferger Grain Co., The, Cincinnati, Ohio.

Blue Bear Hog Feed,
Columbia Little Chick Feed,
Columbia Scratch Grains,
Nutritia Dairy Feed,
Nutritia Distillers' Dried Grains,
Nutritia Hominay Meal,
Nutritia Horse Feed,
Nutritia Rye Middlings,
Nutritia Winter Wheat Bran with Mill Run ground Wheat Screenings not
over 3 per cent.
Nutritia Winter Wheat Middlings,
Queen City Horse Feed,
Sunshine Dairy Feed,
York Dairy Feed.

Finch & Co., Joseph S., Pittsburgh, Pa.

Distillers' Dried Grains.

- Finn, George M., Syraeuse, N. Y.
Chicken Feed prepared from Ground Meat and Bone Serap.
- Fleischmann Co., The, New York, N. Y.
Fleischmann's Dried Grains (F. M. Co.).
Fleischmann's Dried Grains (I. V. Mfg. Co.).
- Flory Milling Co., The, Bangor, Pa.
Extra Rye, Corn and Oat Feed,
Globe Cow Feed,
Golden Egg Chick Feed,
Golden Egg Developing Mash,
Golden Egg Dry Mash,
Golden Egg Serateh Feed,
Pure Rye Feed,
Pure Wheat Bran,
Pure Wheat Middlings,
Special Mixed Feed.
- Ford, Marshall M., Philadelphia, Pa.
Challenge Alfalfa Horse Feed.
Ford's Special Alfalfa Horse Feed.
Winner Alfalfa Horse Feed.
- Franke Grain Co., The, Milwaukee, Wis.
Dried Grains,
Hominy Feed,
Malt Sprouts,
Pure Wheat Bran,
Rye Middlings,
Wheat Bran with Screenings not exceeding Mill Run,
Wheat Flour Middlings,
Wheat Middlings,
Wheat Red Dog Flour.
- Franklin Baker Co., The, Philadelphia, Pa.
Cocoanut Cake Meal.
- Franklin Milling Co., Swineford, Pa.
Franklin Stock Feed No. 1,
Franklin Stock Feed No. 2.
- Frish & Co., J. M., Baltimore, Md.
Alfalfa Meal,
Choice Cottonseed Meal,
Dried Brewers' Grains,
Dried Distillers' Grains,
Dried Malt Sprouts,
Gluten Feed,
Hominy Feed,
Old Process Linseed Meal,
Prime Cottonseed Meal.
- Fritch, D. D. & M. D., Macungie, Pa.
Corn Chop,
Corn and Cob Chop,
Germ Feed,
Mix Chop,
Rye Middlings,
Wheat Bran,
Wheat and Rye Middlings.
- Fritz Co., The, Philadelphia, Pa.
Quaker City Quality Brand Meat and Bone Scraps,
Quaker City Special Brand Meat and Bone Scraps.
- Fuhrmann & Schmidt Brewing Co., Shamokin, Pa.
Brewers' Dried Grains.
- Furst Brothers, Cedar Springs, Pa.
Cracked Corn,
Mix Chop Feed,
Mix Chop,
Pure Corn Chop,
Pure Wheat Middlings,
Wheat Bran.

Gamble, Gheen & Co., Bellefonte, Pa.

Excelsior Chick Feed,
Excelsior Hen Feed,
Mixed Chop,
Pure Corn Chop,
Pure Wheat Bran,
Pure Wheat Middlings.

Gambrell Manufacturing Co., C. A., Baltimore, Md.

Bran with Ground Screenings not exceeding Mill Run,
Brown Middlings with Ground Screenings not exceeding Mill Run,
"G" Middlings,
Hog Feed,
Horse Feed,
Middlings with Ground Screenings not exceeding Mill Run,
Premier Middlings,
White Middlings.

Gandy & Co., O., South Whitley, Ind.

Chop Feed,
Standard A Chick Feed,
Standard A Poultry Feed.

Garber, E. W., Mount Joy, Pa.

Garber's Poultry Powder,
Garber's Stock Food.

Garland Milling Co., Greensburg, Ind.

Garland Mixed Feed.

Glenmore Distilleries Co., Owensboro, Ky.

Glenmore Dried Grains.

Globe Elevator Co., Buffalo, N. Y.

Anchor Dairy Feed,
Anchor Horse Feed,
Anchor Laying Mash,
Anchor Scratch Feed,
Blue Ribbon Developing Feed,
Blue Ribbon Growing Mash,
Blue Ribbon Horse Feed,
Blue Ribbon Laying Mash,
Blue Ribbon Little Chick Feed,
Blue Ribbon Pigeon Feed,
Blue Ribbon Scratch Feed,
Buffalo Stock Feed,
Globe Creamery Feed,
No. 1 Chop Feed,
Star Scratching Grains.

Godshall & Co., A. C., Lansdale, Pa.

Chick Feed,
Corn Meal,
Dry Mash,
Ground Ear Corn,
Mixed Chop,
Rye Middlings,
Scratch Feed,
Wheat Bran,
Wheat Middlings.

Golden Grain Milling Co., East St. Louis, Ill.

Alfalfa Molasses Feed,
Ben Hur Horse and Mule Feed,
Cornette Horse and Mule Feed,
Economy Scratch Feed,
Energy (NRG) Stock Feed,
Golden Grain Alfalfa Meal,
Golden Grain Chick Feed,
Golden Grain Dairy Feed,
Golden Grain Dry Feed,
Golden Grain Horse and Mule Feed,
Golden Grain Scratch Feed,
Ideal Horse and Mule Feed,

Golden Grain Milling Co.—Continued.

Liberty Horse and Mule Feed,
 Mascot Horse and Mule Feed,
 Percheron Horse and Mule Feed,
 Puritan Horse and Mule Feed,
 Southern Horse and Mule Feed.

Goldsboro Pure Feed Co., Goldsboro, Pa.

Alfalfa Horse and Mule Feed,
 Challenge Dairy Feed,
 Gold-O Cane Molasses Dairy Feed,
 Gold-O Chick Starter,
 Gold-O G-B Horse Feed,
 Gold-O Horse Feed,
 Gold-O Howard Horse Feed,
 Gold-O Poultry Mash,
 Gold-O Pure Cane Molasses Concentrated Dairy Feed,
 Gold-O Pure Cane Molasses Dairy Feed No. 2,
 Gold-O Pure Cane Molasses Swine Feed,
 Gold-O Scratch Feed,
 June Bug Cane Molasses Dairy Feed.

Good's City Mills, Williamsport, Pa.

Prize Poultry Food.

Grafton Roller Mill Co., The, Grafton, N. Dak.

Grafton Bran,
 Grafton Middlings,
 Grafton Wheat Feed,
 Keystone Wheat Feed.

Grain Belt Mills Co., South St. Joseph, Mo.

Bronco Horse and Mule Feed,
 Hunter Horse and Mule Feed,
 Pennant Horse and Mule Feed.

Grain Products Co., Wichita, Kans.

Wheat Bran with Mill Run of Screenings not to exceed 8 per cent.,
 Wheat Shorts,

Grain Products Sales Co., New York, N. Y.

Columbia Brewers' Dried Grains,
 Columbia Corn Distillers' Grains.

Grandin Milling Co., D. H., Jamestown, N. Y.

Grandin's Milk Maker,
 Grandin's Stock Food.

Great Northern Flour Mills Co., Minneapolis, Minn.

Wheat Bran,
 Wheat Flour Middlings with Ground Screenings not exceeding Mill Run,
 Wheat Red Dog Flour,
 Wheat Standard Middlings with Ground Screenings not exceeding Mill Run.

Great Western Feed Co., St. Louis, Mo.

Purity Horse and Mule Feed,
 Purity Syrup Feed.

Greencastle Elevator Co., Greencastle, Pa.

C. V. Hen Feed.

Greene Chick Feed Co., Marblehead, Mass.

Greene's Poultry Scraps.

Gronauer & Co., Gus, Memphis, Tenn.

Daisy Brand Cottonseed Meal,
 Globe Brand Cottonseed Meal.

Guarantee Food Co. of Penna., Lewisburg, Pa.

Keystone Stock Conditioner.

Gwin Milling Co., The, Columbus, Ohio.

Chick Feed,
 Cracked Corn,
 Dairy Feed with Screenings not exceeding Mill Run,
 Horse and Mule Feed,
 Red Dog Flour,
 Wheat Bran with Screenings not exceeding Mill Run,
 Wheat Middlings with Screenings not exceeding Mill Run.

Haines, Jacob S., Allentown, Pa.
Mix Chop.

Hales & Edwards Co., Chicago, Ill.
Cackle Fine Chick Feed, with Grit,
Cackle Fine Chick Feed, no Grit,
Cackle Poultry Feed, with Grit and Shell,
Cackle Poultry Feed, no Grit,
Dairymen's League Dairy Feed,
Excelsior Horse Feed,
Gold Flake Dairy Feed,
Greeno Feed,
Harvest Horse Feed,
Pioneer Hog Feed, with Dried Buttermilk,
Pioneer Stock Feed,
Pound Squab Pigeon Feed, no Corn, no Grit,
Pound Squab Pigeon Feed, no Grit,
Pound Squab Pigeon Feed, with Grit,
Red Comb Alfalfa Meal,
Red Comb Chick Mash, with Dried Buttermilk,
Red Comb Coarse Chick Feed, with Grit,
Red Comb Coarse Chick Feed, no Grit,
Red Comb Crate Fattener, with Dried Buttermilk,
Red Comb Fine Chick Feed, no Grit,
Red Comb Fine Chick Feed, with Grit,
Red Comb Meat Mash, with Shell,
Red Comb Poultry Feed, no Grit,
Red Comb Poultry Feed, with Grit,
Red Horn Calf Meal,
Red Horn Dairy Feed,
Red Horn Pig Meal.

Hamlin, Dwight E., Pittsburgh, Pa.
Hamlin's Quality Poultry Dry Mash,
H. & S. Alfalfa Feed (for Milch Cows),
H. & S. Horse, Mule and Dairy Feed.

Hardesty Milling Co., The, Canal Dover, Ohio.
Wheat Bran,
Wheat Middlings.

Harding, George L., Binghamton, N. Y.
Uncle Sam Harding's Granulated Milk Albumen for Poultry.

Harter Milling Co., The, Toledo, Ohio.
Harter's Cracked Corn,
Harter's Fancy Bran,
Harter's Mainspring Mixed Feed with Ground Screenings not exceeding Mill Run,
Harter's Pure Corn & Oats Chop,
Harter's Pure Unbolted Corn Meal,
Harter's Winter Wheat Middlings with Ground Screenings not exceeding Mill Run,
Harter's Winter Wheat Mixed Feed with Ground Screenings not exceeding Mill Run.

Hayden, A., Elizabeth, Pa.
Pure Corn & Oats Chop,
Pure Winter Bran,
Pure Winter Middlings.

Hayes Grain & Commission Co., Little Rock, Ark.
Supreme Brand Cottonseed Meal.

Haywood Alfalfa Warehouse Co., The, Kansas City, Mo.
Algreen Alfalfa Meal.

Hazleton Mercantile Co., Hazleton, Pa.
Corn Chop,
Cracked Corn,
Mixed Chop,
Power City Hen Food,
Rye Mixed Chop,
Star Mixed Feed.

Heacock, Harry G., Orangeville, Pa.

Mix Chop,
Pure Wheat Bran,
Pure Wheat Middlings.

Hecker-Jones-Jewell Milling Co., Buffalo, N. Y.

Choice Wheat Bran with Trace of Screenings,
Fancy White Middlings,
Mixed Feed with Mill Run Screenings,
Red Dog Flour.
Standard Middlings with Mill Run Screenings.

Heffner Milling Co., The, Circleville, Ohio.

Corn Bran,
Dixie Hen Scratch Grains, with Grit,
Dixie Hen Scratch Grains, without Grit,
Heffner's Stock Food.

Hellyer, Jr., Edward, Alexandria, Pa.

Mixed Chop.

Hen-E-Ta Bone Co., The, Newark, N. J.

Hen-O-La Dry Mash.

Hewitt, C. G., Montgomery, Ala.

Cottonseed Meal Feed.

Highspire Distillery Co., Ltd., The, Highspire, Pa.

Highspire Distillery Feed.

Hirst & Begley Linseed Co., Chicago, Ill.

Hirst & Begley's Brand Linseed Meal.

H-O Company, The, Buffalo, N. Y.

The H-O Company's Algrane Horse Feed,
The H-O Company's Algrane Milk Feed,
The H-O Company's Algrane Scratching Feed,
The H-O Company's Chick Feed,
The H-O Company's Dry Poultry Mash,
The H-O Company's Horse Feed with Alfalfa,
The H-O Company's Horse Feed with Molasses.
The H-O Company's Milk Feed with Molasses.
The H-O Company's New England Stock Feed,
The H-O Company's Poultry Feed,
The H-O Company's Steam Cooked Chick Feed.

Hoffer Flouring Mill Co., John, Steelton, Pa.

Wheat Bran,
Wheat Middlings,
Wheat Shorts.

Hoge & Bro., W. S., Washington, D. C.

Milk Maker Dairy Feed.

Hogsett & Son, J. F., Uniontown, Pa.

C. Chop.

Hollands & Sons, Stephen, Hornell, N. Y.

Hollands' Dry Mash.

Hornby & Sons, J. H., New Brighton, Pa.

Hornby's Alfalfa Horse Feed,
Hornby's C. & O. Chop Feed,
Hornby's Scratch Feed.

Hottelet Co., The, Milwaukee, Wis.

Dried Beet Pulp,
Hector Distillers' Dried Grains,
Holstein Brewers' Dried Grains.

Hubbard Milling Co., Mankato, Minn.

Flour Middlings,
Pure Flaky Bran,
Standard Middlings with Ground Screenings not exceeding Mill Run,
Sterling Red Dog Flour.

Hubinger Brothers Co., J. C., Keokuk, Iowa.
 KKK Corn Gulten Feed.

Hammer, W. F., Milford, N. J.
 Corn Ear Cob Meal,
 Hustlers' Scratch Feed,
 Mix Feed,
 Our Special Corn & Oats Feed,
 Rye Bran & Middlings.

Humphreys-Godwin Co., Memphis Tenn.
 Bull Brand Cottonseed Meal,
 Danish Brand Cottonseed Feed,
 Dixie Brand Cottonseed Meal,
 Forfat Brand Cottonseed Meal,
 77 Cottonseed Feed.

Hunter, H., Ashland, Pa.
 O. K. Chick Food,
 O. K. Hen Food.

Hunter-Robinson-Wenz Milling Co., Philadelphia, Pa.
 Certified Wheat Mixfeed with Ground Screenings not exceeding Mill Run,
 Dreadnough Wheat Bran with Ground Screenings not exceeding Mill Run,
 Huntleigh Wheat Bran with Ground Screenings not exceeding Mill Run,
 Interstate Wheat Middlings with Ground Screenings not exceeding Mill Run,
 Ivory Wheat Middlings with Ground Screenings not exceeding Mill Run,
 Matchless Wheat Mixfeed with Ground Screenings not exceeding Mill Run,
 Repeater Wheat Bran with Ground Screenings not exceeding Mill Run,
 Rustic Wheat Middlings with Ground Screenings not exceeding Mill Run,
 Saxony Wheat Middlings with Ground Screenings not exceeding Mill Run,
 Sunshine Wheat Mixfeed with Ground Screenings not exceeding Mill Run.

Huntingdon Milling Co., Huntingdon, Pa.
 Corn, Oats & Barley Chop.

Huron Milling Co., The, Harbor Beach, Mich.
 Jenk's Gluten Feed.

Igleheart Brothers, Evansville, Ind.
 Pure Wheat Bran,
 Pure Wheat Middlings and Screenings,
 Pure Mixed Feed and Screenings.

Imperial Grain & Milling Co., The, Toledo, Ohio.
 C. O. & B. Feed,
 Cracked Corn,
 Imperial Feed Meal,
 No. 1 Chop,
 Premium Chop,
 Steam-Cooked Feed,
 Unbolted Meal.

Independent Brewing Co., Pittsburgh, Pa.
 Dried Brewers' Grains, Chartiers Valley Brewery Branch,
 Dried Brewers' Grains, Duquesne Brewery Branch,
 Dried Brewers' Grains, First National Brewery Branch,
 Dried Brewers' Grains, Hill Top Brewery Branch,
 Dried Brewers' Grains, Homestead Brewery Branch,
 Dried Brewers' Grains, Loyalhanna Brewery Branch,
 Dried Brewers' Grains, New Kensington Brewery Branch.

International Glue Co., Boston, Mass.
 Red Star Brand Fish Scrap.

International Stock Food Co., Minneapolis, Minn.
 International Grofast Calf Meal,
 International Medicinal Poultry Food Tonic,
 International Medicinal Stock Food Tonic.

International Sugar Feed Co., Minneapolis, Minn.
 International Cattle Feed,
 International Climax Dairy Feed,
 International Climax Hog Feed and Charcoal,
 International Climax Horse Feed,

International Sugar Feed Co.—Continued.

International Dairy Feed,
International Dan Patch Special Horse Feed,
International Hog Feed and Charcoal,
International Poultry Feed (Chick),
International Poultry Feed (Scratch),
International Special Dairy Feed.

Interstate Feed Association, Detroit, Mich.
Mormilk Ready Ration Dairy Feed.

Iron City Brewery, Pittsburgh, Pa.
Dried Brewers' Grains.

Jamestown Electric Mills, Jamestown, N. Y.
Jem Chick Feed,
Jem Corn Distillers' Dried Grains,
Jem Cream Dairy Ration,
Jem Hen Feed,
Jem Milk Maker,
Jem Poultry Mash,
Jem Scratch Feed,
Jem Stock Feed.

Jennison Co., W. J., Minneapolis, Minn.
Wheat Bran with Ground Screenings not exceeding Mill Run.
Wheat Flour Middlings with Ground Screenings not exceeding Mill Run.

Jersey Cereal Food Co., Cereal, Pa.
Corn Flake Tailings,
Wheat Flake Tailings.

Johnstown Dry Grains Co., Johnstown, Pa.
Dried Brewers' Grains.

Jones, G. G., Larue, Pa.
Wheat Middlings.

Joseph Co., Dan, Columbus, Ga.
Velvet Bean Feed, "Diamond Brand."

Kalispell Flour Mill Co., Great Fall, Mont.
Kalispell Bran,
Kalispell Mixed Feed,
Kalispell Standard Middlings.

Kam Malting Co., John, Buffalo, N. Y.
Malt Sprouts.

Kansas Flour Mills Co., The, Kansas City, Mo.
Gray Shorts & Screenings,
Standard Shorts and Wheat Screenings,
Wheat Bran and Screenings,
Wheat Mixed Feed and Screenings,
White Middlings and Wheat Screenings,
White Shorts and Wheat Screenings.

Kansas Milling Co., The, Wichita, Kans.
Wheat Bran with Mill Run Screenings.

Kasco Mills, Waverly, N. Y.
Kasco Stock Feed.

Kaw Milling Co., The, Topeka, Kans.
Kaw Kaw Pure Middlings,
Kaw Kaw Shorts and Screenings,
Kaw Kaw Wheat Bran and Screenings.

K. B. R. Milling Co., Marquette, Kans.
Mixed Feed and Wheat Screenings,
Wheat Bran and Wheat Screenings,
Wheat Shorts,
Wheat White Shorts.

Keeton & Co., J. P., Atlanta, Ga.
Big Brand Choice Cottonseed Meal.
Southern King Brand Prime Cottonseed Meal.

- Keever Starch Co., The, Columbus, Ohio.
 Keever Gluten Feed.
- Kehlor Flour Mills Co., St. Louis, Mo.
 Illmo Middlings,
 Kehlor's Mill Feed,
 Neptune Middlings,
 Palace Bran,
 Rex Middlings.
- Kelloggs & Miller, Amsterdam, N. Y.
 Pure Old Process Oil Meal.
- Kellogg Toasted Corn Flake Co., Battle Creek, Mich.
 Dried Brewers' Grains.
- Kelly Milling Co., The William, Hutchinson, Kans.
 Standard Wheat Shorts,
 Wheat Bran and Screenings,
 Wheat Mixed Feed and Screenings.
- Kemper Mill & Elevator Co., Kansas City, Mo.
 Anchor Bran with Ground Screenings not exceeding Mill Run,
 Anchor Pure Bran,
 Carnation Gray Middlings with Ground Screenings not exceeding Mill Run,
 Creseent Middlings with Ground Screenings not exceeding Mill Run,
 Creseent Mixed Feed with Ground Screenings not exceeding Mill Run,
 Diamond K Soft Wheat Bran with Ground Screenings not exceeding Mill Run.
- Keystone Commercial Co., McKeesport, Pa.
 John-Hen Little Chick Feed,
 John-Hen Meat Mash,
 John-Hen Poultry Feed.
- Kidder & Co., F. L., Paris, Ill.
 Peerless Hominy Feed.
- Kimball Milling Co., Kansas City, Mo.
 Corn Bran,
 Pure Wheat Bran,
 Pure Wheat Shorts.
- Klander Est., J. C., Philadelphia, Pa.
 Dried Brewers' Grains.
- Klepser Brothers, Martinsburg, Pa.
 Cow Chop,
 Horse Chop.
- Kornfalfa Feed Milling Co., Kansas City, Mo.
 Kawmo Horse and Mule Feed,
 Kay Horse and Mule Feed,
 K. C. Straight Alfalfa Molasses Feed,
 Klimax Horse and Mule Feed,
 Kluk Chick Feed,
 Kluk Scratch Feed,
 Kontraet Horse and Mule Feed,
 Kornfalfa Feed,
 Kornfalfa Kandy Feed,
 Kutter Horse and Mule Feed,
 Pioneer Alfalfa Meal,
 Sorghum Alfalfa Molasses Feed.
- Kratz, H. B., Schwenksville, Pa.
 Ideal Chick Feed,
 Ideal Hen Feed,
 Ideal Mash Feed.
- Krause Milling Co., Milwaukee, Wis.
 Badger Alfalfa Meal,
 Badger Cream Flakes,
 Badger Dairy Feed,
 Badger Evergreen Feed,
 Badger Fancy Mixed Feed,
 Badger Fancy Middlings,
 Badger Hominy Feed,

Krause Milling Co.—Continued.

Badger Horse Feed,
 Badger Maizo Red Dog Flour,
 Badger Stock Feed,
 Blue Top Dairy Feed,
 Blue Top Fine Chick Feed, no Grit,
 Blue Top Fine Chick Feed, with Grit,
 Blue Top Horse Feed,
 Blue Top Scratch Feed, no Grit,
 Blue Top Scratch Feed, with Grit,
 Cream City Dairy Feed,
 Cream City Horse Feed,
 Cream City Scratch Feed, no Grit,
 Cream City Scratch Feed, with Grit,
 Creseent Horse Feed,
 Krause Dairy Feed,
 Krause Developing Feed, with Grit,
 Krause Horse Feed,
 Krause Mash Feed,
 Krause Scratch Feed, no Grit,
 Krause Scratch Feed, with Grit,
 Krause Stock Feed,
 Pep Feed,
 Pul-Mor Horse Feed.

Kuezyuski, Sieg., Milwaukee, Wis.

Allstar Brewers Dried Grains.
 Faetor Malt Sprouts.
 Fairfax Distillers Dried Grains.
 Mohawk White Hominy Feed.
 Wheat Bran and Mill Run Ground Screenings.
 Wheat Middlings and Mill Run Ground Screenings.

Kuenzel Mills Co., The, New Bremen, Ohio.

Pure Winter Wheat Bran,
 Pure Winter Wheat Middlings.

Kunkle's Flouring Mills, Wellsville, Pa.

Rye, Corn and Oats Chop,
 Winter Wheat Bran,
 Winter Wheat Midds.

LaGrange Mills, The, Red Wing, Minn.

Pure Wheat Bran B.
 Pure Wheat Middlings with Ground Screenings,
 Pure Wheat Reddog Extra Flour.

Lake Erie Milling Co., The, Toledo, Ohio.

C. O. and B. Chop,
 Economy Stock Feed,
 K. C. Chop,
 Park City Stock Feed,
 Scratch Feed.

Lake of the Woods Milling Co., Ltd., Montreal, Canada.

Wheat Bran.

Lake Shoe Elevator Co., The, Cleveland, Ohio.

Big Squab Pigeon Feed,
 Equality Scratch Food,
 Golden Calf Meal,
 Golden Chick Food,
 Golden Growing Food,
 Golden Hog Food,
 Golden Laying Mash,
 Gro-Chick Developing Food,
 Harteno Horse Food,
 Hart's Horse Food,
 Hart's Special Dairy Feed,
 Lake Shore Dairy Food,
 Puritan Stock Food,
 Quality Dry Laying Mash,
 Special Scratch Food,
 Start-Rite Chick Food,
 Unus Horse and Mule Food.

Lancaster Mill & Elevator Co., Lancaster, Pa.

Conestoga Horse Feed,
Lancaster Horse Feed,
Tally-Ho Horse Feed.

Landes, J. C., Collegeville, Pa.

Corn Bran,
Hominy Feed,
Wheat Bran,
Wheat Middlings.

Lanier Brothers, Nashville, Tenn.

Canary Brand Cottonseed Meal,
Holstein Cottonseed Feed,
Jersey Brand Cottonseed Meal.

Larabee Flour Mills Corp., The, Hutchison, Kans.

Red Dog Flour,
Standard Wheat Shorts,
Wheat Bran with Mill Run Screenings not to exceed 8 per cent.,
Wheat Mixed Feed, Wheat Bran and Wheat Shorts with Mill Run Screenings not to exceed 8 per cent.

Larrowe Milling Co., The, Detroit, Mich.

Brownie Dried Grains,
Dried Beet Pulp,
Dried Beet Pulp and Molasses,
Larro-Feed,
Larro-Mash,
Larrowe's Big Six Complete Dairy Feed,
Log Cabin Horse Feed,
Log Cabin Scratch Feed,
Mingo Mixed Feed,
Staff Brand Cottonseed Meal.

Laudenslager, M. M., Macungie, Pa.

Corn Chop,
Mix Chop.

Lavery's Son, J. H., Franklin, Pa.

Franklin Horse Feed.

Lawrenceburg Roller Mills Co., Lawrenceburg, Ind.

Golden Bull Bran,
Golden Bull Middlings,
Golden Bull Mixed Feed,
Snowflake Bran,
Snowflake Middlings,
Snowflake Mixed Feed.

Lea Milling Co., The, Wilmington, Del.

Hominy Chop.

Le Bar, Frank, Stroudsburg, Pa.

Mixed Feed,
Scratch Grain.

Lee Co., George H., Omaha, Nebr.

Lee's Baby Chick Food,
Lee's Egg Maker and Chick Grower.

Lee-Warren Milling Co., The, Salina, Kans.

Fancy White Wheat Middlings,
Wheat Bran and Screenings,
Wheat Shorts.

Levan & Sons, Columbia, Pa.

L. & S. Chick Feed,
L. & S. Hen Feed,
L. & S. Poultry Mash.

Lidgerwood Mill Co., Lidgerwood, N. D.

Bran,
Middlings.

Listman Mill Co., LaCrosse, Wis.

Elmco Brau,
Elmco Mixed Feed,
Elmco Reddog Flour,
Elmco Std. Midds.,
Elmco White Midds.

Little Giant Stock Food Co., Newark, N. J.
Little Giant Stock Food Tonic.

Lloyd, C. E., Washington Court House, Ohio.
Elko Chick Feed,
Elko Horse Feed,
Elko Scratch Feed.

London Mill Co., London, Ohio.
Pure Bran,
Pure Middlings,
Wheat Bran-Coru Bran,
Wheat Screenings.

Loudonville Mill & Grain Co., The, Loudonville, Ohio.
Loudonville Bran,
Loudonville Middlings.

Loughrey Brothers Milling & Grain Co., Monticello, Ind.
Loughrey's Corn and Oats Chop,
Loughrey's Mixed Feed with Screenings not exceeding Mill Run,
Loughrey's Wheat Middlings and Screenings.

Louisiana State Rice Milling Co., Inc., New Orleans, La.
Rice Meal,
Rice Polish.

Lovitt & Co., L. B., Memphis, Tenn.
Lovitt Braud Cottonseed Meal,
Memphis Brand Cottouseed Meal,
Thirty-Six Cottonseed Feed.

Luckenbach, D. & A., Bethlehem, Pa.
Horse Chop,
Laying Hen Scratch Feed,
Mixed Chop.

Luxemburg Milling Co., Luxemburg, Wis.
Coru and Oats,
Rye Feed,
Wheat Bran,
Wheat Middlings.

Lycoming Mill Co., Williamsport, Pa.
Bran,
Corn and Oats Chop,
Corn Chop,
Rye and Oats Chop,
Shorts.

McCall's Sons, Frank, Chester, Pa.
McCall's Special Horse Feed.

MacDouald, J. M., Cincinnati, Ohio.
Clifton Cottonseed Feed,
Kineda Prime Cottonseed Meal,
Macado Cottonseed Meal.

Maney Milling Co., Omaha, Nebr.
Pure Wheat Shorts,
Wheat Bran with Ground Screenings not exceeding Mill Run.

Mann & Allshouse, Easton, Pa.
Chick Food,
Ground Mixed Feed,
Mixed Grains,
Poultry Mash,
Rye Brau,
Rye Middlings,
Wheat Bran,
Wheat Middlings.

Mann Brothers Co., Inc., The, Buffalo, N. Y.
Old Process Linseed Oil Meal.

Mansfield Milling Co., Mansfield, Ohio.
Triangle Mill Run with Ground Screenings not exceeding Mill Run.
Triangle Wheat Bran with Ground Screenings not exceeding Mill Run.
Triangle Wheat Middlings with Ground Screenings not exceeding Mill Run.

Marshall Milling Co., Marshall, Minn.
Reddog Flour,
Wheat Bran with Mill Run of Screenings,
Wheat Middlings,
Wheat Shorts with Mill Run of Screenings.

Martin & Co., Altoona, Pa.
Bran,
Corn and Oat Chop,
Martin's Chicken Feed,
Martin's Poultry Mash,
Meat and Bone Scrap,
Middlings,
Pure Corn Chop,
Rye, Oats and Corn Chop.

Masontown Brewing Co., Masontown, Pa.
Brewers Dried Grains.

Mather Brothers, Greenville, Pa.
Bran,
Buckwheat Middlings,
Chick Feed,
Corn and Oats Chop,
Corn Meal,
Cracked Corn,
Middlings,
Scratch Feed.

Matthews & Sons, Inc., C. P., Scranton, Pa.
Best Mixed Feed for Cows,
Best Mixed Grain for Chickens,
Best Mixed Feed for Horses,
Chicken Feed,
Mixed Feed,
Poultry Mash.

Mausser & Cressman, Catasauqua, Pa.
Chick Feed,
Mixed Chop,
Poultry Mash,
Rye Bran and Middlings,
Scratch Feed,
Wheat Bran,
Wheat Middlings.

Mausser Mill Co., Treichlers, Pa.
Chick Feed,
Corn and Oats Chop,
Hazleton Dairy Feed,
Hazleton Dry Mash,
Hazleton Horse Feed,
Hazleton Mix Chop,
Hen Feed,
Mix Chop,
Pure Wheat Bran,
Wheat and Rye Red Middlings,
Wheat and Rye White Middlings.

Mayflower Mills, Fort Wayne, Ind.
Mayflower Bran,
Mayflower Middlings,
Mayflower Reddog Flour.

Melrose Milling Co., Melrose, Minn.
Middlings,
Pure Fancy Bran.

Memphis Cotton Hull & Fibre Co., Memphis, Tenn.
Cyclone Cottonseed Feed.

Menomonie Milling Co., Menomonie, Wis.
Barley Feed.

Meridian Grain & Elevator Co., Meridian, Miss.
Tip Top Choice Cottonseed Meal,
Tip Top Good Cottonseed Feed,
Tip Top Prime Cottonseed Meal.

Metzgar Seed and Oil Co., The, Toledo, Ohio.
Old Process Oil Meal.

Meyer Malting Co., George J., Buffalo, N. Y.
Malt Sprouts.

Midland Linseed Products Co., Minneapolis, Minn.
Midland Brand Pure Old Process Ground Linseed Cake.

Midland Milling Co., Kansas City, Mo.
Wheat Bran and Screenings not exceeding Mill Run,
Wheat Brown Shorts and Screenings not exceeding Mill Run.
Wheat Gray Shorts and Screenings not exceeding Mill Run.

Millard & Scureman, Kingston, Pa.
Blue Ribbon Chick Feed,
Blue Ribbon Mash Feed,
Blue Ribbon Poultry Feed,
Chop,
Hen Food,
Red Feather Feed.

Millbourne Mills, Philadelphia, Pa.
Pure Wheat Bran with Ground Screenings not exceeding Mill Run.
Pure Wheat Middlings with Ground Screenings not exceeding Mill Run.

Miller & Son, J. B., New Danville, Pa.
Miller's Poultry Mash.

Mills of Albert Lea, Albert Lea, Minn.
Albert Lea Reddog Flour,
Albert Lea Wheat Bran,
Albert Lea Wheat Flour Middlings with Ground Screenings not exceeding
Mill Run.
Albert Lea Wheat Standard Middlings with Ground Screenings not exceeding
Mill Run.

Milwaukee Grains & Feed Co., Milwaukee, Wis.
Crown Dried Brewers Grains.

Milwaukee Linseed Oil Works, Milwaukee, Wis.
Old Process Ground Oil Cake.

Miner-Hillard Milling Co., Wilkes-Barre, Pa.
Buckwheat Middlings,
Colonial Middlings,
Mihimico Dairy Feed,
Mihimico Stock Feed,
Mixed Chicken Feed,
Mixed Chop,
No. 1 Scratch Feed,
Poultry Mash,
Rye Middlings,
Steam Cooked Flakeline,
Steam Cooked Hominy Feed,
Wheat Bran,
Wheat Middlings.

Minnesota Linseed Oil Co., Minneapolis, Minn.
Ground Linseed Cake (Old Process).

Montgomery & Co., C. L., Memphis, Tenn.
Eagle Brand Cottonseed Meal,
Extra Brand Cottonseed Meal,
Globe Brand Cottonseed Meal,
Star Brand Cottonseed Meal.

Morris & Company, Chicago, Ill.

Big Brand Meat Meal,
Big Brand Meat Scraps,
Big Sixty Meat Meal Digester Tankage.

Moseley & Motely Milling Co., Rochester, N. Y.

Big B Choice Wheat Bran,
Wheat Middlings with Ground Screenings not exceeding Mill Run.

Moyer & Son, Souderton, Pa.

Mixed Chop for Horses,
Puritan Poultry Mash,
Specialty Hen Feed,
Specialty Poultry Mash,
Specialty Scratch Feed.

Myers, Thomas W., Lewistown, Pa.

Corn Chop B. Grade,
Corn Chop C. Grade,
Pure Corn Chop A. Grade,
Pure Corn and Oats Chop,
Pure Oats Chop,
Pure Rye Chop,
Pure Wheat Chop.

Mystic Milling & Feed Co., Rochester, N. Y.

Mystic Feed,
Mystic Growing Mash,
Mystic Hominy Feed,
Mystic Laying Mash,
Mystic Mixed Feed.

National Feed Co., St. Louis, Mo.

Linsced Meal,
Oat Feed,
Prime Cottonseed Meal,
Pure Alfalfa Meal,
Pure Hominy Feed,
Pure Wheat Bran,
Wheat Bran with Screenings not exceeding Mill Run,
Wheat Bran and Middlings with Screenings not exceeding Mill Run.
Wheat Middlings with Screenings not exceeding Mill Run.

National Feed Mills Co., The, Yellow Springs, Pa.

Golden Chick Feed with Grit,
Golden Hen Feed with Grit,
Golden Hen Feed without Grit,
Golden Mash Feed,
Nateo Dairy Feed,
Silver Chick Feed with Grit,
Silver Chop Feed,
Silver Hen with Grit,
Silver Hen without Grit.

National Milling Co., Minneapolis, Minn.

National Mill Company Bran,
National Mill Company Bob Reddog,
National Mill Company Choice Middlings,
National Mill Company Fancy Middlings.

National Oats Co., St. Louis, Mo.

Diamond "C" Chick Feed,
Diamond "C" Hen Feed,
Diamond "C" Hen Feed with Grit,
Diamond "C" Sweet Feed,
Navajo Chick Feed,
Navajo Feed,
Navajo Hen Feed,
Navajo Sweet Feed,
Noco Chick Feed,
Noco Hen Feed,
Noco Horse and Mule Feed,
Noco Stock Feed,
Noco Sweet Feed,
Nueo Dairy Feed,

National Oats Co.—Continued.

Nutro Chick Feed,
 Nutro Hen Feed,
 Nutro Hen Feed with Grit,
 Nutro Sweet Feed,
 Pawnee Chick Feed,
 Pawnee Feed,
 Pawnee Hen Feed,
 Pawnee Sweet Feed.

Neumond, K. & E., Inc., St. Louis, Mo.
 Anheuser-Busch Brewers Dried Grains,
 Golduess Kalb Brewers Dried Grains.

Neversink Distilling Co., Ltd., Loraine, Pa.
 Distillers Dried Grains.

Newlin's Mills, Easton, Pa.
 Newlins Mills Corn Chop,
 Newlins Mills Mixed Feed,
 Newlins Mills Rye Middlings.

New Prague Flouring Mill Co., New Prague, Minn.
 Seal of Minnesota Bran with Ground Screenings not exceeding Mill Rnn.
 Seal of Minnesota Flour Middlings.
 Seal of Minnesota Germ Middlings,
 Seal of Minnesota Low Grade Flour,
 Seal of Minnesota Special Middlings,
 Seal of Minnesota Standard Middlings.

Newsome Feed & Grain Co., The, Pittsburgh, Pa.
 Palmo Middlings.

New Ulm Roller Mill Co., New Ulm, Minn.
 Coarse Bran,
 Ground Corn and Oats,
 Hominy Feed,
 Rye Feed,
 Rye Reddog,
 Vetch Meal,
 Wheat Middlings.

New York Alfalfa Mills, Caledonia, N. Y.
 Pure Green Valley Alfalfa Meal.

Nickel Plate Elevator Co., Cleveland, Ohio.
 Alfalfa Molasses Horse Feed,
 Cleveland Scratch,
 Economy Chick Feed,
 Economy Chick with Grit,
 Economy Chop Feed,
 Economy Dairy Feed,
 Economy Digester Tankage,
 Economy Hog Feed,
 Economy Mash Feed,
 Economy Molasses Horse Feed,
 Economy Meat Scraps,
 Economy Pigeon Feed,
 Economy Scratch Feed,
 Economy Scratch with Grit,
 Imperial Chick Feed,
 Imperial Growing Feed,
 Imperial Molasses Horse Feed,
 Imperial Pigeon Feed,
 Imperial Scratch Feed,
 Special Imperial Scratch Feed.

Nickel Plate Flour Mills, Erie, Pa.
 Little Chick Feed,
 Mixed Grain for Poultry,
 Poultry Mash.

Noblesville Milling Co., Noblesville, Ind.
 N. M. Co.'s Middlings with Ground Wheat Screenings not exceeding Mill Run,
 N. M. Co.'s Mixed Feed,
 N. M. Co.'s Wheat Bran and Screenings.

Northern, W. C., Little Rock, Ark.

Bee Brand Cottonseed Meal,
Butterfly Brand Cottonseed Meal,
Standard Brand Cottonseed Feed.

North Star Feed & Cereal Co., Minneapolis, Minn.
Rye Middlings.

Northwestern Consolidated Milling Co., The, Minneapolis, Minn.

Planet Feed,
Pure Wheat Bran,
Wheat Flour Middlings with Ground Screenings not exceeding Mill Run.
Wheat Standard Middlings with Ground Screenings not exceeding Mill Run.
Wheat Mixed Feed composed of Wheat Bran, Flour Middlings and Ground
Screenings not exceeding Mill Run.
XXX Comet Reddog Flour.

Northwestern Elevator & Mill Co., The, Toledo, Ohio.

Middlings with Ground Screenings not exceeding Mill Run.
Pure Wheat Bran.

Northwestern Milling Co., Little Falls, Minn.

Bran,
Flour Middlings,
Low Grade Flour,
Mixed Feed,
Standard Middlings.

Northwestern Yeast Co., Chicago, Ill.

Corn Bran,
Rye Feed.

Norton & Co., Willis, Topeka, Kans.

Bran and Screenings,
Shorts and Screenings.

Nowak Milling Corporation, Buffalo, N. Y.

Domino Alfalfa Meal,
Domino Butterine Dairy Feed,
Domino Calf Meal,
Domino Chick Feed,
Domino Creamery Feed,
Domino Cream-O-Lene Dairy Ration,
Domino Developing Feed,
Domino Growing Mash,
Domino Horse Feed with Alfalfa,
Domino Laying Mash,
Domino Milk Maker Dairy Feed,
Domino Pigeon Feed,
Domino Scratch Feed,
Domino Stock Feed,
Domino Vim-O-Lene Horse Feed,
Fidelity Horse Feed,
Fidelity Scratch Feed,
Fidelity Stock Feed,
Lay-Egg-O Laying Mash,
Marathon Scratch Feed,
Union Dairy Feed.

Oatfalfa Milling Co., Philadelphia, Pa.

Alfa Horse Feed,
Corno Horse Feed,
Koehl's Sterling Dairy Feed,
Oatfalfa Horse Feed.

Ober & Sons Co., G., Baltimore, Md.

Ober's Royal Crown Beef Meat for Poultry.

Offenhauser, C., Philadelphia, Pa.

Consolidated Digester Tankage.

Oil Seeds Co., New York, N. Y.

Alpha Brand Peanut Oil Meal,
Beta Brand Peanut Oil Meal,
Coco Brand Coconut Oil Meal.

- O. K. Company, The, New York, N. Y.
Puritan Chick Food.
- Omaha Alfalfa Milling Co., Omaha, Nebr.
Al-Corn-O Horse Feed,
Alfalfa Meal,
Alfalfa Syr. Feed,
Alfalmo Feed,
Evergreen Horse Feed,
Green Meadow Dairy Feed,
Omaha Special Horse Feed,
Peerless Alfamo Horse Feed,
Perfection Horse Feed.
- Osakis Milling Co., Osakis, Minn.
Bran,
Fancy White Middlings,
Middlings.
- Oswego Milling Co., The, Oswego, N. Y.
Pontiac Scratch Feed,
Stevens Dairy Ration.
- Park & Pollard Co., The, Boston, Mass.
Alfalfa,
Baby Buster Chick Feed,
Growing Feed,
Intermediate Chick Feed,
Lay or Bust Dry Mash,
Overall Corn $\frac{1}{2}$ and $\frac{1}{4}$ Oats,
Park & Pollard Co. Horse Feed,
Park & Pollard Co. Oswego Meal,
Red Ribbon Chick Feed,
Red Ribbon Scratch Feed,
Screened Scratch Feed.
- Patent Cereal Co., The, Geneva, N. Y.
Hominy Feed.
- Patterson Milling Co., Saltsburg, Pa.
Pure Corn Chop,
Pure Corn and Oats Chop,
Wheat Bran,
Wheat Middlings.
- Penn Grains & Feed Co., Philadelphia, Pa.
Malt Sprouts,
Peerless Distillers' Dried Grains,
Peerless and Penngrains Brewers' Dried Grains.
- Pennsylvania Central Brewing Co., The, Scranton, Pa.
Brewers' Dried Grains.
- Penwick Distillery, The, Cheswick, Pa.
Distillers' Corn Dried Grains,
Distillers' Rye Dried Grains.
- Perot's Sons' Malting Co., The Francis, Philadelphia, Pa.
Malt Sprouts.
- Peters Mill Co., M. C., Omaha, Nebr.
Peters' Alfalfa Queen Mills Dairy Feed,
Peters' Alfalfa Molasses Feed,
Peters' Arab Horse Feed,
Peters' Corn Feed Meal,
Peters' Economy Horse Feed,
Peters' Economy Scratch Poultry Feed,
Peters' High Score Alfalfa Molasses Feed,
Peters' Hog Profit,
Peters' June Pasture,
Peters' King Corn,
Peters' Lucern Alfalfa Meal,
Peters' Rabbit Mule Feed,
Peters' Red Feather Chick Feed,
Peters' Red Feather Poultry Mash,
Peters' Red Feather Scratch Feed,
Peters' Re-Peter Horse Feed,
Peters' Submilk.

- Pfeffer Milling Co., Lebanon, Ill.
 Pfeffer's Corn Bran,
 Pfeffer's Hominy Feed,
 Pfeffer's Wheat Bran,
 Pfeffer's Wheat Middlings with Ground Screenings not exceeding Mill Run.
- Phelps & Sibley Co., Cuba, N. Y.
 Fancy Wheat Bran with Ground Screenings not exceeding Mill Run,
 Fancy Wheat Middlings with Ground Screenings not exceeding Mill Run,
 Favorite Intermediate Chick Feed,
 Favorite Mixed Grains,
 Favorite Poultry Mash,
 P. & S. Scratch Grains,
 P. & S. White Feed,
 P. & S. Yellow Feed,
 Yellow Corn Feed Meal "A."
- Philadelphia Seed Co., Inc., Philadelphia, Pa.
 N. A. Egg Competition Fish Mash Feed,
 N. A. Egg Competition Scratch Feed,
 Purgrains Chick Developing Mash,
 Purgrain Chick Developer No. 1,
 Purgrain Chick Developer No. 2,
 Purgrain Chick Starter No. 1,
 Purgrain Chick Starter No. 2,
 Purgrain Laying Mash,
 Purgrain Scratch Poultry Feed No. 1,
 Purgrain Scratch Poultry Feed No. 2,
 Purgrain Scratch Pigeon Feed,
 Special Fanciers Pigeon Feed No. 1,
 Special Fanciers Pigeon Feed No. 2,
 Special Fanciers Pigeon Feed No. 3,
 Special Fanciers Pigeon Feed No. 4.
- Philipsburg Milling, Lighting & Heating Co., Philipsburg, Pa.
 Corn Chop,
 Mixed Chop,
 Oats and Rye Chop.
- Phoenix Mill Co., Minneapolis, Minn.
 Phoenix Red Dog Flour,
 Phoenix Wheat Bran with Ground Screenings not to exceed Mill Run,
 Phoenix Wheat Flour Middlings with Ground Screenings not to exceed Mill Run,
 Phoenix Wheat Standard Middlings with Ground Screenings not to exceed Mill Run.
- Piel Brothers Starch Co., Indianapolis, Ind.
 P. Bro. Corn Gluten Feed.
- Pierce Milling Co., Pierce, Neb.
 Pure Wheat Bran,
 Pure Wheat Shorts.
- Pillsbury Flour Mills Co., Minneapolis, Minn.
 Pillsbury's Durum Wheat Bran with Ground Screenings not exceeding Mill Run,
 Pillsbury's Durum Wheat Standard "B" Middlings with Ground Screenings not exceeding Mill Run,
 Pillsbury's Fancy Wheat Mixed Feed with Ground Screenings not exceeding Mill Run,
 Pillsbury's Rye Middlings with Ground Screenings not exceeding Mill Run,
 Pillsbury's Wheat "A" Middlings with Grounds Screenings not exceeding Mill Run,
 Pillsbury's Wheat Bran with Ground Screenings not exceeding Mill Run,
 Pillsbury's Wheat Standard Middlings (B) with Ground Screenings not exceeding Mill Run,
 Pillsbury's XX Daisy.
- Pinkerton, H. W., N. S. Pittsburgh, Pa.
 Eggo Dry Mash Feed.
- Piqua Milling Co., The, Piqua, Ohio.
 Wheat Bran,
 Wheat Middlings.

Pittsburgh Provision & Packing Co., Pittsburgh, Pa.

Beef Meal,
Beef Scrap,
Digestible Tankage,
Dried Blood,
Poultry Bone.

Plant Milling Co., George P., St. Louis, Mo.

"P" Wheat Bran with Screenings not exceeding Mill Run,
"P" Wheat Middlings with Screenings not exceeding Mill Run,
"P" Wheat Mixed Feed with Screenings not exceeding Mill Run.

Planter's Cotton Oil Co., Montgomery, Ala.

Velvet Bean Meal.

Poe Cottonseed Products Co., Memphis, Tenn.

Butter Cup Brand Prime Cottonseed Meal.
Butternut Brand Choice Cottonseed Cracked Cake,
Dandelion Brand Choice Cottonseed Meal,
Golden Rod Brand Good Cottonseed Feed,
Gold Dust Brand Cottonseed Feed,
Poco Brand Cottonseed Feed,
Primrose Brand Choice Cottonseed Meal,
Raven Brand Cottonseed Feed.

Pontz, Fred, Lancaster, Pa.

Alfalfa Horse Feed,
Chick Feed,
Corn and Oats Chop,
Hen Feed,
Mash Feed,
Wheat Bran.
Wheat Middlings.

Postum Cereal Co., Battle Creek, Mich.

C. X. X. Feed.

Pottsville Feed Co., Pottsville, Pa.

Dried Brewers' Grains.

Prairie State Milling Co., Chicago, Ill.

American Horse Feed,
Emerald Horse Feed,
Garland Chick Feed, no Grit,
Garland Chick Feed, with Grit,
Garland Scratch Feed, no Grit,
Garland Scratch Feed, with Grit,
Greenfield Alfalfa & Molasses Feed,
Prairie State Alfalfa Meal,
Prairie State Chick Feed, Coarse, with Grit,
Prairie State Chick Feed, with Grit,
Prairie State Chick Feed, no Grit,
Prairie State Chop Feed,
Prairie State Pigeon Feed, with Grit,
Prairie State Poultry Mash,
Prairie State Scratch Feed, no Grit,
Prairie State Scratch Feed, with Grit,
Red Crown Scratch Feed, no Grit,
Red Crown Scratch Feed, with Grit.

Pratt Food Co., Philadelphia, Pa.

Pratt's Baby Chick Food.

Pratt Mills, The, Pratt, Kans.

Bran,
Mixed Feed,
Standard Middlings.

Preston & Jacquish, Troy, Pa.

Corn and Oats Chop,
Dry Mash,
Scratch Feed.

Procter & Gamble Distributing Co., The, Cincinnati, Ohio.

P. & G. Copra Oil Meal.

Purity Oats Co., Davenport, Iowa.

Iowa Chick Feed, no Grit,
 Iowa Chick Feed, with Grit,
 Iowa Dairy Feed,
 Iowa Horse Feed,
 Iowa Scratch Feed, no Grit,
 Iowa Scratch Feed, with Grit,
 Iowa Stock Feed,
 Purity Reground Oat Hulls,
 Scattergood Chick Feed, no Grit,
 Scattergood Chick Feed, with Grit,
 Scattergood Dairy Feed,
 Scattergood Horse Feed,
 Scattergood Scratch Feed, no Grit,
 Scattergood Scratch Feed, with Grit,
 Scattergood Stock Feed,
 Tom Boy Chick Feed,
 Tom Boy Dairy Feed,
 Tom Boy Poultry Mash,
 Tom Boy Scratch Feed,
 Tom Boy Stock Feed.

Quaker City Flour Mills Co., Philadelphia, Pa.

Spring Wheat Bran with Ground Screenings not exceeding Mill Run,
 Spring Wheat Middlings with Ground Screenings not exceeding Mill Run,
 Winter Wheat Bran with Ground Screenings not exceeding Mill Run,
 Winter Wheat Middlings with Ground Screenings not exceeding Mill Run.

Quaker City Grain Co., Philadelphia, Pa.

Bully Stock Feed.

Quaker Oats Co., The., Chicago, Ill.

American Hen Scratch Grains,
 American Poultry Feed,
 Big Egg Scratch Grains,
 Blue Ribbon Scratch Grains,
 Boss Feed,
 Buckeye Feed,
 C. O. & B. Feed,
 Early Bird Scratch Grains,
 Excelsior Feed,
 Pansy Scratch Grains,
 Quaker Scratch Grains,
 Red Star Feed,
 Schumacher Calf Meal,
 Schumacher Feed,
 Schumacher Scratch Grains,
 Schumacher Special Horse Feed,
 Sterling Feed,
 Sterling Horse Feed,
 Sterling Scratch Feed,
 Victor Feed,
 White Diamond Feed.

Rachau, J. L., Clintondale, Pa.

Corn and Oats Chop,
 Hen Food,
 Mixed Chop,
 Pure Corn and Cob Meal,
 Pure Corn Chop,
 Wheat Bran,
 Wheat Middlings.

Ralston Purina Co., St. Louis, Mo.

Biddy Chick Feed,
 Biddy Scratch Feed,
 Good Luck Chick Feed,
 Good Luck Dairy Feed,
 Good Luck Feed with Molasses,
 Good Luck Scratch Feed,
 O. K. Feed with Molasses,
 Peck's Mule Feed with Molasses,
 Protana Dairy Feed,
 Protana Horse Feed,
 Purina Alfalfa Meal,

Ralston Purina Co.—Continued.

Purina Calf Chow,
 Purina Chick Feed,
 Purina Chicken Chowder Feed with Charcoal, not over 1 per cent.,
 Purina Chicken Fatena Feed,
 Purina Cow Chow Feed,
 Purina Dairy Feed,
 Purina Fatena Feed,
 Purina Feed (Dustless),
 Purina Feed with Molasses,
 Purina O'Molene Feed,
 Purina Pig Chow,
 Purina Pigeon Feed,
 Purina Scratch Feed,
 Purina Sweet Feed,
 Regal Chick Feed,
 Regal Scratch Feed,
 Star Chick Feed,
 Star Feed with Molasses,
 Star Scratch Feed,
 Success Chick Feed,
 Success Scratch Feed,
 Winner Chick Feed,
 Winner Scratch Feed,
 XX Good Feed with Molasses.

Ramsey, J. D., Pittsburgh, Pa.

Ramsey's Meat Meal Tankage.

Rawleigh Medical Co., The W. T., Freeport, Ill.

Rawleigh's All Medium Hog Mixture,
 Rawleigh's All Medium Stock Mixture,
 Rawleigh's Poultry Powder,
 Rawleigh's Stock Tonic.

Reading Bone Fertilizer Co., Reading, Pa.

Reading Poultry Bone,
 Reading Poultry Meat.

Red River Milling Co., Fergus Falls, Minn.

Bran,
 Standard Middlings.

Red Star Mill & Elevator Co., Wichita, Kans.

Wheat Bran and Screenings,
 Wheat Mixed Feed and Screenings,
 Wheat Shorts and Screenings.

Red Wing Linseed Co., Red Wing, Minn.

Red Wing Brand Ground Oil Cake.

Red Wing Milling Co., Red Wing, Minn.

Bioxta Bran Flour with Ground Screenings not exceeding Mill Run,
 Bioxta Flour Middlings,
 Bioxta Red Dog Flour,
 Bioxta Wheat Middlings.

Reece & Greenly, Millville, Pa.

Buckwheat Feed.

Reichard, Robert A., Allentown, Pa.

Beef Granules,
 Beef Meal,
 Blood Meal,
 Bone Granules,
 Bone Meal,
 High Grade Beef Scrap,
 Standard Beef Scrap,
 40 Per Cent. Digester Tankage,
 60 Per Cent. Digester Tankage.

Replogle, U. E., Woodbury, Pa.

Buckwheat Middlings,
 Corn Chop,
 Mixed Chop,
 Pure Bran,
 Pure Wheat Middlings,
 Rye Chop.

- Robin Hood Mills, Ltd., Moose Jaw, Sask., Canada.
 Bran with Ground Screenings not exceeding Mill Run,
 Middlings with Ground Screenings not exceeding Mill Run,
 Oat Feed.
- Robinson, Jr., George E., New York, N. Y.
 Cottonseed Meal,
 Hominy Feed,
 Linseed Oil Meal.
- Rockwell, G. G., North Baltimore, Ohio.
 Wheat Bran with Ground Screenings not exceeding Mill Run,
 Wheat Middlings with Ground Screenings not exceeding Mill Run.
- Romaine, DeWitt, Jersey City, N. J.
 Boiled Beef and Bone.
- Rosekrans-Snyder & Co., Philadelphia, Pa.
 Brewers' Dried Grains,
 Hominy,
 Jenk's Gluten,
 Pilsner Brewers' Dried Grains,
 White Corn Bran,
- Rugh, Edgar W., Greensburg, Pa.
 Tankage.
- Russell-Miller Milling Co., Minneapolis, Minn.
 Bran,
 Flour Middlings,
 Occident Wheat Feed,
 Red Dog Flour,
 Standard Middlings.
- Russia Cement Co., Gloucester, Mass.
 Chik-Chuk (Fish Meal).
- Ryde & Company, Chicago, Ill.
 Ryde's Cream Calf Meal.
- Ryder, J. O., Matamoras, Pa.
 Cackle Brand Meat Scraps.
- Saeger Milling Co., Allentown, Pa.
 Hanover Chick Feed,
 Hanover Scratch Feed,
 Mixed Chop,
 Pure Corn Chop,
 Pure Wheat Bran,
 White Wheat Middlings.
- Saginaw Milling Co., Saginaw, Mich.
 Blue Bird Feed Bran,
 Blue Bird Feed Middlings,
 Ogemaw A. A. Pigeon Feed,
 Red Hen Chick Starter,
 Red Hen Dry Mash,
 Red Hen Scratch Feed,
 Samico Feed Bran,
 Samico Feed Middlings,
 Wolverine Scratch Feed.
- Sauers Milling Co., Evansville, Ill.
 Winter Wheat Bran with Ground Screenings not exceeding Mill Run,
 Winter Wheat Shipstuff with Ground Screenings not exceeding Mill Run.
- Saxony Mills, St. Louis, Mo.
 Mixed Feed with Ground Screenings not exceeding Mill Run,
 No. 1 Brown Wheat Middlings,
 Wheat Bran with Ground Screenings not exceeding Mill Run.
- Scarlett & Co., William G., Baltimore, Md.
 Oriole Brand AA Pigeon Feed,
 Oriole Brand AAA Pigeon Feed,
 Oriole Brand Beef Scraps,
 Oriole Brand Chick Developer,
 Oriole Brand Chick Starter,

Scarlett & Co.—Continued.

Oriole Brand Dry Mash,
 Oriole Brand Fish Scraps,
 Oriole Brand Meat Meal,
 Oriole Brand Scratch Feed,
 Oriole Brand Special Pigeon Feed.

Scattergood & Co., S. F., Philadelphia, Pa.

Iowa Good Chick Feed,
 Iowa Good Horse Feed,
 Iowa Good Scratch Feed,
 Scattergood Chick Feed,
 Scattergood Horse Feed,
 Scattergood Scratch Feed.

Schlitz Brewing Co., Joseph, Milwaukee, Wis.

Schlitz Purity Dried Grains.

Schmidt & Walker Co., The, Cincinnati, Ohio.

Snow King Hominy Feed.

Schmucker, C. E., Watsonstown, Pa.

Cracker Jack Dairy Feed,
 Schmucker's Complete Dairy Feed,
 Schmucker's Stock Feed.

Schneider Brothers Co., Mount Carmel, Pa.

Golden Brand Chick Feed,
 Golden Brand Hen Feed,
 Golden Brand Mash Feed.

Schooley & Son, H. N., Luzerne, Pa.

Hen's Delight Scratch Feed,
 No. 1 Mixed Chop.
 No. 2 Mixed Chop.

Scobie & Parker Co., Pittsburgh, Pa.

Premier Chick, no Grit,
 Premier Chick, with Grit,
 Premier Devel., no Grit,
 Premier Devel., with Grit,
 Premier Poultry, no Grit,
 Premier Poultry, with Grit.

Scott County Milling Co., The, Sikeston, Mo.

Corn Bran,
 Wheat Bran and Screenings not exceeding Mill Run,
 Pure Wheat Shorts.

Scott Logan Milling Co., Sheldon, Iowa.

Bran,
 Middlings,
 Red Dog Flour,
 Shorts.

Security Remedy Co., Minneapolis, Minn.

Security Calf Food Compound.

Seely Co., The S. Alfred, Spencer, N. Y.

Reground Buckwheat Feed.

Servus Milling Co., Mankato, Minn.

Flaky Bran,
 Flour Middlings,
 Standard Middlings with Ground Screenings not exceeding Mill Run,
 Sterling Red Dog Flour.

Shamrock Mills, St. Louis, Mo.

Green Chick Feed,
 Green Flag Feed,
 Green Hen Feed,
 Green Sweet Feed,
 Killarney Chick Feed,
 Killarney Hen Feed,
 Killarney Hen Feed, with Grit,
 Killarney Sweet Feed.

Shamrock Mills.—Continued.

Shamrock Chick Feed,
 Shamrock Dairy Feed,
 Shamrock Hen Feed,
 Shamrock Horse and Mule Feed,
 Shamrock Sweet Feed.

Shane Brothers & Wilson Co., Minneapolis, Minn.

Clover Leaf Wheat Bran,
 Red Dog Flour,
 Snowball Wheat White Middlings with Ground Screenings not exceeding
 Mill Run,
 Wheat Standard Middlings with Ground Screenings not exceeding Mill Run.

Sharpless, C. H., Bloomsburg, Pa.

Henola Chick Feed,
 Henola Mash Feed,
 Henola Scratch Feed.

Sheffield-King Milling Co., Minneapolis, Minn.

Brodflake Bran with Ground Screenings,
 Fairybow Middlings and Pulverized Wheat Screenings,
 Gold Mine Feed,
 Low Grade Flour,
 Whitehope Middlings and Pulverized Wheat Screenings.

Shellabarger Mill & Elevator Co., Salina, Kans.

Wheat Bran and Screenings,
 Wheat Brown Shorts and Screenings,
 Wheat Mixed Feed and Screenings.

Shepard, Clark & Co., Cleveland, Ohio.

Cocoanut Oil Cake Meal,
 Star Brand Cottonseed Meal.

Sherwin-Williams Co., Cleveland, Ohio.

S. W. C. Linseed Oil Meal.

Shmidheiser & Co., Godfrey, Philadelphia, Pa.

S. & S. Horse Feed,
 S. & S. Molasses Feed,
 S. & S. Soft Feed.

Shoemaker & Co., M. L., Ltd., Philadelphia, Pa.

Ground Beef Scraps.

Shredded Wheat Co., The, Niagara Falls, N. Y.

Shredded Wheat Waste for Poultry.

Shute & Co., E. L., Philadelphia, Pa.

Crown Horse Feed,
 Malasco Sweet Feed,
 Shute's Special Horse Feed.

Simpson Co., The W. A., Baltimore, Md.

Champion Brand Chick Feed,
 Champion Brand Chick Starter,
 Champion Brand Scratch Feed,
 Meat and Bone Meal,
 Meat and Bone Scraps.

Small Co., The P. & A. S., York, Pa.

Pearlicross Chick Feed,
 Pearlicross Scratch Feed.

Smith Brokerage Co., Tennille, Ga.

Velvet Bean Feed.

Smith, Hoke, Hanover, Pa.

Champion Horse and Mule Feed.

Smith, Parry & Co., Milwaukee, Wis.

Wisconsin Vitex Dairy Feed.

Smith & Waldo, Wysox, Pa.

S. & W. Laying Mash.

- Snyder & Co., C. U., Chicago, Ill.
Kleinceo Brewers' Dried Grains,
Kleinceo Malt Sprouts.
- Soper Co., J. E., Boston, Mass.
Blue Ribbon Hominy Chop,
Pilgrim Cottonseed Meal.
- Southern Cotton Oil Co., Montgomery, Ala.
Cottonseed Feed.
- Southwestern Milling Co., The, Kansas City, Mo.
Merit Pure Mixed Feed,
Optima Pure Soft Wheat Bran,
Optima Pure Soft Wheat Mixed Feed,
Pure Fancy White Middlings,
Pure Gray Shorts,
Pure Mill Run Bran,
Pure Mixed Feed,
Pure Wheat Bran,
Pure Wheat Brown Shorts.
- Sparks Milling Co., Alton, Ill.
Fancy Gray Shorts,
Try Me Bran,
Try Me Mixed Feed.
- Sparks Milling Co., Terre Haute, Ind.
Wabash Mixed Feed.
- Spratt Patent, Ltd., Newark, N. J.
Spratt's Bantam Food No. 4,
Spratt's Calf Meal,
Spratt's Chicgrain,
Spratt's Chick Meal No. 5,
Spratt's Chick Meal No. 12,
Spratt's Crissel,
Spratt's Developing Food,
Spratt's Egg Mash Food,
Spratt's Ground Meat,
Spratt's Growing Mash Food,
Spratt's Pigeon Food No. 4,
Spratt's Pigeon Food No. 5,
Spratt's Pheasant Food No. 3,
Spratt's Pheasant Meal No. 5,
Spratt's Pheasant Meal No. 12,
Spratt's Poultry Food No. 3,
Spratt's Scratch Food,
Spratt's Turkey Food No. 3,
Spratt's Turkey Meal No. 5,
Spratt's Utility Mash Food,
Spratt's Wild Duck Meal.
- Staley's Manufacturing Co., A. E., Decatur, Ill.
Staley's Corn Gluten Feed.
- Standard Cereal Co., The, Chillicothe, Ohio.
Logan Hominy Feed,
Standco Feed Meal,
Standco Hominy Feed,
Standco Middlings,
Standco Mixed Feed,
Standco Wheat Bran.
- Standard-Tilton Milling Co., St. Louis, Mo.
Wheat Bran with Screenings not exceeding Mill Run,
Wheat Middlings with Screenings not exceeding Mill Run.
- Standard Tin Plate Co., Canonsburg, Pa.
Refuse Middlings.
- Stanton & Sons, James F., New Stanton, Pa.
Chop.

- Star & Crescent Milling Co., Chicago, Ill.
 Crescent Bran with Ground Screenings not exceeding Mill Run,
 Crescent Middlings,
 Star Bran with Ground Screenings not exceeding Mill Run,
 Star Middlings with Ground Screenings not exceeding Mill Run,
 Star Red Dog Flour.
- Stauffer, H. M., Leola, Pa.
 Leola Chick Feed,
 Leola Dry Feed,
 Leola Scratch Feed.
- Stegmaier Brewing Co., Wilkes-Barre, Pa.
 Dried Brewers' Grains.
- Stellman, W. H., Baltimore, Md.
 Crown Brand Dried Malt Grains,
 Crown Brand Dried Rye Grains,
 Ador Brand Brewers' Dried Grains,
 Ador Brand Distillers' Dried Grains,
 Distillers' Dried Corn Grains,
 Distillers' Dried Grains,
 Milk Brand Brewers' Dried Grains.
- Stern & Sons, Inc., Bernhard, Milwaukee, Wis.
 Atlas Red Dog,
 Atlas Wheat Bran with Ground Screenings not exceeding Mill Run,
 Atlas Wheat Flour Middlings with Ground Screenings not exceeding Mill Run,
 Standard Wheat Middlings.
- Stewart Distilling Co., Highlandtown, Md.
 Distillers' Rye Grains.
- Stewart, Jesse C., Pittsburgh, Pa.
 Shadyside Wheat Bran with Ground Screenings not exceeding Mill Run.
- St. Mary Mill Co., St. Mary, Mo.
 Wheat Bran,
 Wheat Middlings with Ground Screenings not exceeding Mill Run.
- Stock & Sons, F. W., Hillsdale, Mich.
 Bran,
 Middlings,
 Monarch Mixed Feed,
 Superior Mixed Feed.
- Stokes Milling Co., Watertown, S. Dak.
 Wheat Bran with Ground Screenings not exceeding Mill Run,
 Country Wheat Middlings with Ground Screenings not exceeding Mill Run.
- Stott Flour Mills, Inc., David, Detroit, Mich.
 Climax Middlings,
 Pennant Middlings with Ground Screenings not exceeding Mill Run,
 Spring Wheat Bran and Wheat Screenings,
 Stott's Fine White Middlings.
- Strawburgh, E. C., York, Pa.
 The X. Y. Z. Poultry Powder.
- Suffern-Hunt Mills, Decatur, Ill.
 Acme Hominy Feed.
- Sugarine Co., The, Peoria, Ill.
 Ideal Horse Feed with Alfalfa,
 Ideal Sugared Feed,
 Suco Alfalfa Molasses Feed,
 Suco Dairy Feed,
 Suco Fat Maker,
 Sugarine Calf Meal,
 Sugarine Chick Feed,
 Sugarine Chick Feed, with 5 Per Cent. Grit,
 Sugarine Dairy Feed,
 Sugarine Hog Meal,
 Sugarine Horse Feed with Alfalfa,
 Sugarine Poultry Mash,
 Sugarine Scratch Feed,
 Sugarine Scratch Feed, with 5 Per Cent. Grit,
 Universal Scratch Feed,
 Universal Scratch Feed, with 5 Per Cent. Grit.

Swift & Company, Chicago, Ill.

Swift's Beef Meal,
 Swift's Blood Meal,
 Swift's Digester Tankage,
 Swift's Eureka Meat Seraps,
 Swift's Laymore Meat Seraps,
 Swift's Meat Meal,
 Swift's Poultry Bone Meal,
 Swift's Soluble Blood Flour.

Swope Brothers, Johnstown, Pa.
 Corn and Oats Chop.

Syraeuse Rendering Co., Syraeuse, N. Y.

Syraeuse Bone Meal,
 Syraeuse Bone and Meat Meal,
 Syraeuse Cracked Bone,
 Syraeuse Poultry Food.

Talbott Chemical Co., The W. R., Sandusky, Ohio.
 Sal-Medico.

Taylor Commission Co., Atlanta, Ga.
 Prime Cottonseed Meal,
 Taylor Brand Cottonseed Feed.

Teed's Sons, W. I., Sayre, Pa.
 Teed's Ready Mixed Laying Mash.

Tennessee Fibre Co., Memphis, Tenn.
 Creamo Brand Cottonseed Feed.

Texas Cake & Linter Co., Dallas, Texas.
 Sunset Brand Cottonseed Meal and Cake.
 Texoma Brand Cottonseed Meal and Cake.

Thompson Distilling Co., West Brownsville, Pa.
 Distillers' Rye Dried Grains.

Thompson & Co., Pittsburgh, Pa.
 Oil Meal as Stock Food.

Thompson Milling Co., Loekport, N. Y.
 Angelus Wheat Bran with Ground Screenings not exceeding Mill Run,
 Angelus Wheat Flour Middlings with Ground Screenings not exceeding Mill Run,
 Angelus Wheat Middlings with Ground Screenings not exceeding Mill Run,
 Angelus Wheat Mixed Feed with Ground Screenings not exceeding Mill Run.

Thornton & Chester Milling Co., Buffalo, N. Y.
 T. & C. Wheat Bran with Ground Screenings not exceeding Mill Run,
 T. & C. Wheat Coarse Middlings with Ground Screenings not exceeding Mill Run,

T. & C. Wheat Middlings with Ground Screenings not exceeding Mill Run,
 T. & C. Wheat Mixed Feed with Ground Screenings not exceeding Mill Run.

Tioga Mill & Elevator Co., Waverly, N. Y.

Colonel's Ration,
 Derby Chick Feed,
 Derby Horse Feed,
 Derby Scratch Feed,
 H. W. S. Stock Feed,
 Omar Mixed Feed,
 Tioga Chick Feed, Blue Brand,
 Tioga Dairy Feed, Blue Brand,
 Tioga Dairy Feed, Red Brand,
 Tioga Dairy Feed, White Brand,
 Tioga Dry Mash,
 Tioga Growing Feed,
 Tioga Horse Feed,
 Tioga Poultry Grains,
 Tioga Laying Food,
 Tioga Wheat Middlings,
 Waverly Flour Wheat Middlings.

Toledo Elevator Co., Indianapolis, Ind.
Corona Meal.

Toledo Grain & Milling Co., The, Toledo, Ohio.
Camp's "A" Yellow Chop Feed,
Camp's Clover Leaf Scratch Feed, no Grit,
Camp's Clover Leaf Scratch Feed, with Grit,
Camp's C. O. & B. Chop Feed,
Camp's C. O. B. K. Chop Feed,
Camp's Corn Meal Stone Ground,
Camp's Invincible Alfalfa Feed,
Camp's Keystone Chop Feed,
Camp's Little Wonder Chop Feed,
Camp's Maumee Stock Feed,
Camp's M. D. Chop Feed,
Camp's No. 1 Yellow Chop Feed,
Camp's Red Ball Chick Food,
Camp's Red Ball Egg Mash,
Camp's Red Ball Scratch Feed, with Grit,
Camp's Red Ball Scratch Feed, without Grit,
Camp's Stock Feed,
Camp's Wamba Chop Feed.

Toledo Seed & Oil Co., The, Toledo, Ohio.
Major Brand Old Process Oil Meal.

Trow Company, W., Madison, Ind.
Trow's Wheat Bran with Ground Screenings not exceeding Mill Run,
Trow's Wheat Middlings with Ground Screenings not exceeding Mill Run,
Trow's Wheat Mixed Feed with Ground Screenings not exceeding Mill Run.

Ubiko Milling Co., The, Cincinnati, Ohio.
Fourx (XXXX) Distillers' Dried Grains,
Ubiko Horse and Stock Feed,
Union Grains, Ubiko, Biles Ready Dairy Ration.

Union Grain & Feed Co., The, Anderson, Ind.
Colonial Horse Feed,
Diamond Scratch Feed,
Union Chick Feed,
Union Dairy Feed,
Union Horse Feed,
Union Mash Feed,
Union Scratch Feed,
Universal Scratch Feed.

Union Seed & Fertilizer Co., New York, N. Y.
Columbia Cottonseed Feed,
Number 5½ Cottonseed Feed,
Number 6½ Cottonseed Feed,
Security Brand Cottonseed Feed,
Surety Brand Cottonseed Feed.

Union Starch & Refining Co., Edinburg, Ind.
Union Corn Gluten Feed.

United Home Dressed Meat Co., Altoona, Pa.
Bone and Meat Tankage.

Urban Milling Co., George, Buffalo, N. Y.
Wheat Bran with Ground Screenings not exceeding Mill Run,
Wheat Middlings with Ground Screenings not exceeding Mill Run,
Wheat Mixed Feed with Ground Screenings not exceeding Mill Run.

Valier & Spies Milling Co., Marine, Ill.
Valier's Wheat Bran with Ground Wheat Screenings,
Valier's Wheat Middlings with Ground Wheat Screenings.

Valley City Milling Co., Grand Rapids, Mich.
Farmers' Favorite Bran and Mill Run of Screenings,
Farmers' Favorite Cow Feed and Mill Run of Screenings,
Farmers' Favorite Middlings and Mill Run of Screenings.

Victor Brewing Co., Jeanette, Pa.
Brewers' Dried Grains.

Virginia Feed & Milling Corporation, Alexandria, Va.
 Blue Bell Dairy Feed,
 Supreme Horse and Mule Feed,
 Tivoli Brand Alfalfa Meal,
 Tivoli Brand Malt Sprouts.

Voigt Milling Co., Grand Rapids, Mich.
 Voigt's Crescent Bran containing Mill Run Screenings,
 Voigt's Crescent Middlings,
 Voigt's Cow Feed containing Mill Run Screenings.

Wagar & Co., C. W., Philadelphia, Pa.
 Corn Bran,
 Hominy Feed,
 Middlesex White Corn Bran,
 Union Gluten Feed,
 Wagar's Dried Grains.

Waggoner-Gates Milling Co., Independence, Mo.
 Mixed Feed.

Walters Milling Co., Philadelphia, Pa.
 Brewers' Grains,
 Corn Bran,
 Hominy Feed.

Walter & Sons, George, Butler, Pa.
 Byrite Bran and Mill Run of Screenings,
 Byrite Cluck Grain,
 Byrite Egg Mash,
 Byrite Middlings and Mill Run of Screenings,
 Byrite Scratch Feed.

Washburn-Crosby Co., Minneapolis, Minn.
 Adrian Red Dog Flour,
 Ben Hur Wheat Bran with Ground Screenings not exceeding Mill Run,
 Ben Hur Wheat Standard Middlings with Ground Screenings not exceeding Mill Run,
 Rye Middlings,
 Wheat Flour Middlings with Ground Screenings not exceeding Mill Run,
 Wheat Mixed Feed with Ground Screenings not exceeding Mill Run.

Wash-Co Alfalfa Milling Co., Fort Calhoun, Nebr.
 Alfalcream,
 Alfalfa Strong Horse Feed,
 Alfgreen,
 Famous Horse Feed,
 Nebraska Horse Feed,
 Peacock Horse Feed,
 Rix-O-Fat,
 Superior Horse Feed,
 Wash-Co Horse Feed.

Watkins Med. Co., The J. R., Winona, Minn.
 Watkins' Poultry Tonic,
 Watkins' Stock Tonic.

Weiss Alfalfa Stock Food Co., The Otto, Wichita, Kans.
 Otto Weiss Alfalfa Meal,
 Otto Weiss, Stock Feed.

Wells Flour Milling Co., Wells, Minn.
 Feedwell Bran with Ground Screenings not exceeding Mill Run,
 Feedwell Flour Middlings,
 Feedwell Germ Middlings,
 Feedwell Low Grade Flour,
 Feedwell Special Middlings,
 Feedwell Standard Middlings.

Wells-Abbott-Nieman Co., Schuyler, Nebr.
 Puritan Fancy White Middlings with Ground Screenings not exceeding Mill Run,
 Puritan Pure Wheat Bran,
 Puritan Wheat Middlings with Ground Screenings not exceeding Mill Run,
 Puritan Wheat Shorts with Ground Screenings not exceeding Mill Run.

Weltin, M., Quincy, Ill.
Weltin's A Middlings,
Weltin's Winter Bran.

Wentz, A. F., Jersey Shore, Pa.
Buckwheat Middlings,
Little Chick Food,
Mixed Chop,
Pure Corn Chop,
Pure Wheat Bran,
Pure Wheat Middlings,
Scratching Grains.

Wertz & Son, F. S., Reading, Pa.
Faramel Dairy Feed,
Faramel Horse Feed,
Our Own Alfalfa Horse Feed.

Western Flour Mills Co., Davenport, Ia.
Black Hawk Bran with Ground Screenings not exceeding Mill Run,
Black Hawk Flour Middlings,
Black Hawk Foundry Flour,
Black Hawk Germ Middlings,
Black Hawk Low Grade Flour,
Black Hawk Red Dog Flour,
Black Hawk Second Clear,
Black Hawk Standard Middlings.

Western Grain Products Co., Hammond, Ind.
Alfalfa Meal,
Calumet Alfalfa Horse Feed,
Calumet Dairy Feed,
Calumet Scratch Feed, no Grit,
Calumet Scratch Feed, with Grit,
Calumet Stock Feed,
Hammond Dairy Feed,
Hammond Horse Feed,
Hammond Scratch Feed, no Grit,
Hammond Scrat Feed, with Grit,

Western Grains & Feed Co., Chicago, Ill.
Bourbon Corn Distillers' Dried Grains,
Dried Brewers' Grains,
Malt Sprouts,
Milkmaid Brewers' Dried Grains,
Standard Brewers' Dried Grains,
Westco Corn Distillers' Dried Grains.

Western Star Mill Co., Salina, Kans.
Star Winter Wheat Bran and Screenings,
Star Winter Wheat Middlings.

Wichita Alfalfa Stock Food Co., The, Wichita, Kans.
Alfalfa Meal.

Wilbur Stock Food Co., Milwaukee, Wis.
Wilbur's Poultry Tonic,
Wilbur's Stock Tonic.

Will, Jr., William T., Philadelphia, Pa.
Ideal Chick Feed,
Ideal Developing Feed,
Ideal Fish Mash Feed,
Ideal Fish Mash Feed, with Alfalfa,
Ideal Scratch Feed.

Williams Bros. Co., The, Kent, Ohio.
Kent Mixed Feed,
Pure Ohio Wheat Bran,
Pure Winter Wheat Middlings.

Williams, Frank, Easton, Pa.
Wheat Bran,
Wheat Middlings.

Wilson Brothers, Buffalo, N. Y.

Alfalfa Meal,
Dried Brewers' Grains,
Distillers' Grains,
Flour Middlings,
Malt Sprouts,
Oatfeed,
Mixed Feed,
Red Dog Flour,
Spring Wheat Bran,
Standard Middlings,
Winter Wheat Bran,

Wilson, John C., Philadelphia, Pa.

Wilson's Alfalfa Molasses Horse Feed.

Woodworth & Co., E. S., Minneapolis, Minn.

Flour Middlings.

Woolworth, E. J., Kearney, Nebr.

Pure Alfalfa Meal.

Xtravim Molasses Feed Co., Boston, Mass.

Xtra-Vim Feed.

Yerxa, Andrews & Thurston, Inc., Minneapolis, Minn.

Golden Durum Wheat Flour Middlings,
Hector Durum Wheat Red Dog Flour,
Nokomos Durum Wheat Bran,
Nokomos Durum Wheat Middlings.

Young's Stock Food Co., Dr. T. D., Media, Pa.

Young's Anti-Abortion Food,
Young's Horse Food,
Young's Horse Regulator,
Young's Poultry Food.

Zenith Milling Co., Kansas City, Mo.

Wheat Bran and Screenings not exceeding Mill Run.

ANALYSES OF SAMPLES OF FEEDING STUFFS RECEIVED
FROM MANUFACTURERS AND PURCHASERS
LOCATED IN PENNSYLVANIA.

There were 168 special samples of feeding stuffs received during the year from manufacturers, importers and purchasers located in the State. These samples were analyzed for protein, fat and fiber for the fee of one dollar (\$1.00) as provided for in the feeding stuffs law. They included samples of shipments where it was deemed advisable to determine whether or not the guarantees claimed would be sustained and a number of brands of new feeds where an analysis was required to determine the correctness of the formula or mixture in order to establish correct guarantees when placed on sale. As the results secured were in the nature of private information for the parties concerned, the analyses of these special samples are not included in this report.

DIRECTIONS FOR ANALYSIS OF SPECIAL SAMPLES.

Residents of Pennsylvania who wish to have samples of feeding stuffs analyzed should proceed as follows:

Amount of Sample: About one-half pound of the sample of feed to be analyzed should be carefully secured from a number of sacks, the larger the number of sacks sampled the more representative will be the results secured, or where the feed is in bulk from several different places in the bin. These different portions secured in this manner should be thoroughly mixed and placed in large mailing envelopes, bottles or cartons or other containers usually used for this purpose. Care should be taken that the sample or samples be plainly marked or numbered in order that they may be readily identified. This information is especially necessary where two samples of like character are submitted. A small sample of feed can be analyzed but better and more representative results can be obtained on a thoroughly mixed one-half pound sample.

Charge for Analysis: A charge is made of one dollar (\$1.00) for each sample analyzed, determinations being made for protein, fat and

fiber. The fee should be sent in the form of a check, money order or cash with a letter accompanying sample requesting the analysis to be made.

Address: Both letters and samples should be addressed and sent to the Bureau of Chemistry, Pennsylvania Department of Agriculture, Box "R," Harrisburg, Pa. The name of the sender should be clearly placed on the package containing sample.

OFFICIAL SAMPLES OF FEEDING STUFFS OBTAINED BY SPECIAL AGENTS.

During the period covered by this report Special Agents of the Department secured 1,199 official samples of feeding stuffs for chemical analysis and microscopical examination. In addition to this number, one sample of grit was obtained, which was not analyzed, and 16 samples of feed were secured which after being forwarded to the Bureau of Chemistry by express were lost in transit and to date have not been received. The agents visited the dealers located in 287 towns and cities, in 55 counties throughout the State, taking samples from the stock in the warehouses found being offered for sale and from car shipments which had been recently received. In order to avoid duplication of work, many localities and places of business were visited where samples were not taken because previous samples of like feeds had been selected; however, in these cases the method of labeling and guaranteeing were carefully inspected. Reports were also submitted covering each sample and furnishing information with respect to the general prevailing conditions. The following table (No. 1) will show the names of the counties visited and the number of samples secured in each, including the one sample of grit and excluding the samples referred to as having been lost.

TABLE I.—COUNTIES VISITED AND NUMBER OF SAMPLES SECURED IN EACH.

Name of County.	Number of Samples.
Adams, -----	18
Allegheny, -----	29
Armstrong, -----	14
Beaver, -----	25
Bedford, -----	8
Berks, -----	11
Blair, -----	30
Bradford, -----	11
Butler, -----	40
Cambria, -----	45
Cameron, -----	8
Carbon, -----	12
Centre, -----	25
Chester, -----	33
Clarion, -----	6
Clearfield, -----	19
Clinton, -----	19
Columbia, -----	22
Crawford, -----	20
Cumberland, -----	24
Dauphin, -----	25
Delaware, -----	22
Elk, -----	18
Erie, -----	3
Fayette, -----	18
Forest, -----	6
Franklin, -----	24
Greene, -----	6
Huntingdon, -----	11
Indiana, -----	22
Jefferson, -----	22
Juniata, -----	4
Lancaster, -----	74
Lawrence, -----	25
Lebanon, -----	18
Lehigh, -----	11
Luzerne, -----	31
Lycoming, -----	31
Lycoming, -----	12
McKean, -----	33
Mercer, -----	12
Mifflin, -----	11
Montgomery, -----	37
Northumberland, -----	12
Perry, -----	8
Philadelphia, -----	58
Potter, -----	7
Schuylkill, -----	24
Somerset, -----	22
Snyder, -----	4
Union, -----	13
Venango, -----	20
Warren, -----	7
Washington, -----	47
Westmoreland, -----	68
York, -----	46
Total, -----	1,200

GUARANTEES AND DEFICIENCIES.

The samples, which, upon analysis, failed to meet their guarantees for protein and fat compared with those received during the previous year were less in number showing an improvement in the correctness of guarantees. These guarantees were, as a rule, exceeded and while the number of cases where both minimum and maximum guarantees were given was small, the higher guarantees were not frequently met, indicating that reliance can only be placed in the lower figures. The deficiencies noted were only those where the protein was 1 per cent.

or more and the fat .5 per cent. or more below the guarantees although, as will be noted, there were many lesser variations from the amounts claimed. The deficiencies were the most numerous in the cottonseed meals where 32 per cent. of the samples contained less protein than claimed and in the proprietary dairy feeds with molasses were 12 per cent. were low in protein and 10 per cent. low in fat. Of the 1,125 samples representing guaranteed shipments 8, or .71 per cent., were deficient in both protein and fat, 64, or 5.69 per cent., were deficient in protein alone and 52, or 4.62 per cent., were deficient in fat alone. The total number deficient in protein was 72, or 6.40 per cent. and 60 samples, or 5.33 per cent., were deficient in fat. In the following table (No. II), will be found the various classes of feeding stuffs, the number of samples of each, the number guaranteed and the number which were found deficient in both protein and fat, in protein alone and in fat alone.

TABLE II.—CLASSIFICATION OF SAMPLES ANALYZED AND SUMMARY OF DEFICIENCIES.

Name of Feeding Stuffs.	Number of samples analyzed.	Number of samples guaranteed.	Deficient in protein and fat.	Deficient in protein alone.	Deficient in fat alone.
Cottonseed meal, -----	73	72	-----	23	1
Cottonseed feeds, -----	31	31	2	4	-----
Linseed oil meal, O. P., -----	39	39	-----	1	-----
Cocanut oil meal, -----	1	1	-----	-----	-----
Distillers' dried grains (largely from corn), -----	20	20	-----	1	5
Distillers' dried grains (largely from rye), -----	1	1	-----	-----	-----
Distillers' and yeast dried grains, -----	7	7	-----	-----	-----
Brewers' dried grains, -----	17	17	1	3	-----
Malt sprouts, -----	2	2	-----	-----	-----
Corn gluten feed, -----	32	30	-----	1	3
Corn gluten meal, -----	1	1	-----	-----	1
Hominy feed, -----	18	17	-----	-----	-----
Corn bran, -----	1	1	-----	-----	-----
Corn feed meal, -----	4	3	-----	-----	-----
Low grade flour, -----	5	5	-----	-----	-----
Wheat middlings, -----	39	30	-----	1	3
Wheat middlings with admixtures, -----	40	38	-----	-----	-----
Mixed feed: wheat by-products, -----	7	7	-----	-----	-----
Wheat bran, -----	27	23	-----	-----	-----
Wheat bran with admixtures, -----	33	31	-----	-----	-----
Rye middlings, -----	1	1	-----	-----	-----
Wheat and rye middlings, -----	1	1	-----	-----	-----
Oat meal, -----	2	2	-----	-----	-----
Oat feed, -----	4	4	1	-----	-----
Buckwheat middlings, -----	3	1	-----	-----	-----
Alfalfa meal, -----	12	9	-----	-----	-----
Dried beet pulp, -----	3	3	-----	-----	-----
Proprietary dairy feeds, -----	92	89	-----	1	11
Proprietary dairy feeds with molasses, -----	100	100	3	9	7
Proprietary stock, horse and mule feeds, -----	98	97	-----	2	4
Proprietary stock, horse and mule feeds with molasses, -----	150	148	-----	-----	1
Proprietary calf meals, -----	15	14	-----	1	-----
Proprietary swine feeds, -----	12	12	-----	1	4
Proprietary chop feeds, -----	26	26	-----	-----	3
Miscellaneous chop feeds, -----	22	12	-----	-----	1
Miscellaneous feeds, -----	2	1	-----	-----	-----
Proprietary poultry foods:					
Whole grain scratch feeds, -----	147	127	-----	-----	2
Mash feeds, -----	53	49	-----	4	3
Animal by-products, -----	52	50	1	12	3
Condimental stock and poultry foods, -----	6	3	-----	-----	-----
Total, -----	1,199	1,125	8	64	52

AVERAGE ANALYSES AND RETAIL PRICES.

The following table (No. III) has been prepared to show the average composition of the several classes or groups of feeding stuffs analyzed and the average retail selling prices prevailing at the time the samples were selected. It is recognized that where only one or averages of a few are included, the information cannot be held to be completely representative as where a greater number of samples enter into the average results shown. The principal features to be noted are a decrease in the composition or analysis of cottonseed meals and a marked increase in the prices over those shown in the 1916 report. Each class of feeds show advances in values ranging from a 10 per cent. increase in the case of oat by-products to over a 100 per cent. in the case of the proprietary chop feeds. The approximate percentage increases over the average prices of last year in the principal classes of feeds where a number of samples entered into the averages are as follows: Cottonseed meal, 23 per cent.; old process oil meal, 31 per cent.; distillers' dried grains largely from corn, 37 per cent.; distillers' and yeast dried grains, 50 per cent.; brewers' dried grains, 56 per cent.; corn gluten feed, 35 per cent.; hominy feed, 43 per cent.; corn feed meal, 72 per cent.; low-grade flour middlings, 59 per cent.; wheat middlings, 40 per cent.; wheat middlings with admixtures, 26 per cent.; wheat mixed feed, 41 per cent.; wheat bran, 43 per cent.; wheat bran with admixtures, 52 per cent.; buckwheat middlings, 35 per cent.; alfalfa meal, 34 per cent.; proprietary dairy feeds, from 31 to 47 per cent.; proprietary dairy feeds with molasses, 50 per cent.; proprietary stock, horse and mule feeds, from 18 to 66 per cent.; proprietary stock, horse and mule feeds with molasses, 25 per cent.; proprietary calf meals, 17 per cent.; proprietary swine feeds, 58 per cent.; proprietary chop feeds, 41 per cent.; poultry foods, 50 per cent., and animal by-products, 30 per cent. In the following table will be found the number of samples of the several classes of feeds received together with the analysis and selling price where only one sample was included and the average analysis and selling prices where more than one sample was included. The averages for the few miscellaneous feeds and condimental stock and poultry products are not included:

TABLE III.—AVERAGE ANALYSIS AND RETAIL PRICES.

Name of Feeding Stuff.	Number of samples analyzed.	Protein.	Fat.	Fiber.	Price per ton.
		%	%	%	
Cottonseed meal, -----	73	37.90	6.85	11.76	\$51 95
Cottonseed feeds, -----	31	28.63	5.53	17.76	48 00
Linseed meal, O. P., -----	39	33.97	7.10	8.03	57 33
Cocoonut oil meal, -----	1	29.38	9.14	7.63	46 00
Distillers' dried grains (largely from corn), -----	20	32.19	11.01	11.35	49 30
Distillers' dried grains (largely from rye), -----	1	16.38	9.15	12.62	32 00
Distillers' and yeast dried grains, -----	7	21.34	7.07	16.85	46 14
Brewers' dried grains, -----	17	26.65	7.35	14.24	46 06
Malt sprouts, -----	2	25.47	2.05	12.22	42 00
Corn gluten feed, -----	32	25.78	2.36	6.83	48 26
Corn gluten meal, -----	1	45.56	0.86	1.39	47 00
Hominy feed, -----	18	11.55	7.01	4.41	55 22
Corn bran, -----	1	11.06	7.68	6.29	52 00
Corn feed meal, -----	4	9.39	3.44	2.34	66 60
Low grade flour, -----	5	16.45	4.29	2.79	58 20
Wheat middlings, -----	39	16.67	5.00	5.66	50 62
Wheat middlings with admixtures, -----	40	16.53	5.40	6.50	47 58
Mixed feed: wheat by-products, -----	7	16.66	5.13	6.66	51 00
Wheat bran, -----	27	15.85	4.87	9.13	42 85
Wheat bran with admixtures, -----	33	15.85	4.93	9.21	43 44
Rye middlings, -----	1	18.44	3.55	5.16	50 00
Wheat and rye middlings, -----	1	16.13	4.44	6.99	50 00
Oatmeal, -----	2	15.22	8.01	1.12	130 00
Oat feed, -----	4	6.38	2.61	26.08	28 63
Buckwheat middlings, -----	3	28.86	8.34	8.24	50 00
Alfalfa meal, -----	12	14.67	2.08	29.44	42 33
Dried beet pulp, -----	3	9.73	0.77	15.82	40 67
Proprietary dairy feeds, -----	92	22.89	6.62	10.81	52 28
Proprietary dairy feeds with molasses, -----	100	17.60	4.55	14.33	43 61
Proprietary stock, horse and mule feeds, -----	98	11.32	4.64	10.25	52 99
Proprietary stock, horse and mule feeds with molasses, -----	150	11.28	2.55	12.31	52 70
Proprietary calf meals, -----	15	26.13	5.89	4.81	79 80
Proprietary swine feeds, -----	12	18.77	5.70	7.89	53 41
Proprietary chop feeds, -----	26	9.90	4.07	8.41	51 88
Proprietary poultry foods:					
Whole grain scratch feeds, -----	147	11.11	3.35	2.78	75 07
Mash feeds, -----	53	18.54	4.68	7.24	66 35
Animal by-products, -----	52	40.78	11.41	1.93	77 29

DISCUSSION OF THE ANALYTICAL RESULTS.

Each of the official samples of feeding stuffs secured by the Special Agents from the various feed dealers in the State were analyzed chemically and examined microscopically to determine whether or not the guarantees claimed would be found correct and whether or not they would contain the ingredients listed and for the presence of inferior or prohibited materials, as well as to ascertain their general character and composition. The results secured have been tabulated in detail in the large table (No. IV) in the order of classification as shown in Table II, showing the names and addresses of manufacturers or importers, brand names, names and addresses of dealers

or parties from whom the samples were obtained, the determinations for moisture, protein, fat and fiber with the guarantees found upon sacks or attached cards and the selling prices. The samples of each class are arranged in alphabetical order of the names of manufacturers and where two or more samples of the same kind or brand of feed were received, averages of the results of analyses are shown. The following discussion indicates the findings in each class of feeds grouped together, showing the minimum and maximum contents of protein, fat and fiber, with retail prices together with averages. The deficiencies referred to are only those where the protein was found to be 1 per cent. or more and the fat one-half of 1 per cent. or more below the guarantees and do not include many slight variations as will be noted.

OIL CAKE MEALS.

COTTONSEED MEAL.

Analyses on pages 84 to 91.

There were 73 samples received and analyzed during the year, including 29 brands, the product of 24 firms representing the cottonseed meal being sold in the State. There were 12 brands found being sold which were not registered as required and 1 sample was from a shipment found not to be guaranteed. Of the number guaranteed, 23 were found to contain 1 per cent. or more less protein than claimed and 1 sample was deficient in fat. Comparing these meals with those analyzed during 1916, there was a greater number of deficiencies and they were of a lower grade, averaging nearly 2 per cent. less protein and containing a larger proportion of hulls, while the selling prices averaged \$9.76 more a ton. There were 3 samples guaranteed to contain 41 per cent. protein, 47 to contain 38.62 per cent. protein, and 22, 36 per cent. protein. About one-half, or 31 of the samples were labeled with "sliding" or both minimum and maximum guarantees for protein and of those guaranteed in this manner only three met the higher guarantees, indicating that but little reliance can be placed upon cottonseed meal guaranteed in this manner. Less than one-half or 35 samples met the given protein guarantees. In those samples guaranteed low in protein and found deficient, excessive amounts of cottonseed hulls were found present. As will be noted by referring to the large table, lack of uniformity was observed in the selling prices, as many brands containing the lower contents of protein and fat retailed for a higher price than those found to contain

a greater amount of these nutrients. The protein varied from 31.75 per cent. to 45.81 per cent., averaging 37.90 per cent. The fat varied from 5.27 per cent. to 10.54 per cent., averaging 6.85 per cent., and the fiber varied from 7.74 per cent. to 15.58 per cent., averaging 11.76 per cent. The selling prices were from \$42 to \$66 and averaged \$51.95 a ton. The sample representing the brand containing the lowest content of protein and which was guaranteed 36 per cent., sold for \$50 a ton, and that containing the highest content of protein and guaranteed 38.70 per cent. sold for \$60 a ton. During the year's inspection work, there was a larger proportion of samples representing brands sold for cottonseed meal and analyzing low in protein than heretofore observed, there being 10 samples which contained 35 per cent. or less of protein. The results of analysis of each sample will be found in detail in the large table.

COTTONSEED FEED.

Analyses on pages 90 to 95.

Owing to the increasing number of brands of cottonseed feeds being offered for sale, it seemed desirable to place the samples of this product in a separate group for comparison. There were 31 samples, including 12 brands, the output of 9 firms received and analyzed which were mixtures of cottonseed meal and cottonseed hulls and classified as "Cottonseed Feeds." There were 2 samples, representing shipments of 1 brand of this class of feeds which were sold as 41 per cent. cottonseed meal and which were included in this group as they were found upon analysis to contain less than 20 per cent. of protein. The remaining feeds included 16 samples guaranteed 36 per cent. protein and 13 samples guaranteed 20 per cent. and 20.56 per cent. protein. There was 2 brands represented by the samples secured which were not registered. Two samples were found deficient in both protein and fat and 4 deficient in protein alone. As would be expected from the variation in the proportions of meal and hulls, there was considerable variation in composition noted. The amount of hulls present in the mixtures ranged from approximately 16 per cent. to 50 per cent. The protein ranged from 17.50 per cent. to 38.50 per cent., averaging 28.63 per cent.; the fat ranged from 3.20 per cent. to 10.39 per cent., averaging 5.53 per cent. and the fiber ranged from 10.83 per cent. to 26.08 per cent., averaging 17.76 per cent. The retail prices were from \$36.00 to \$57.00 and averaged \$48.00 a ton.

LINSEED OIL MEAL.

Analyses on pages 94 to 97.

The samples of linseed oil meal received numbered 39, including 10 separate brands of old process meals representing guaranteed shipments and three of these were found labeled with both minimum and

maximum guarantees. Only one sample was found to be deficient in protein. This product shows very little variation in its composition from year to year, the average analysis being close to those received in 1916. The prices have increased, however, the average of the samples included in this report being \$57.33 a ton, while the average price for last year was \$43.49 a ton. Two samples were found to contain small amounts of screenings, indicating that the seed was not thoroughly cleaned before oil extraction. The protein varied from 28.19 per cent. to 38.31 per cent., averaging 33.97 per cent.; the fat varied from 5.26 per cent. to 9.11 per cent., averaging 7.10 per cent., and the fiber varied from 6.85 per cent. to 10.00 per cent., averaging 8.03 per cent. The lowest price was \$42.00 a ton for a shipment which analyzed 30.13 per cent. protein and the highest price was \$66.00 a ton for a grade containing 38.31 per cent. protein, the average price being \$57.33 a ton.

COCOANUT OIL MEAL.

Analyses on pages 98 and 99.

Only one sample was secured by the Agents representing the product prepared by grinding the pressed cake after the extraction of oil from cocoanut meats. The sample represented a shipment which was properly guaranteed, analyzing 20.38 per cent. protein, 9.14 per cent. fat and 7.63 per cent. fiber. This brand, which was not registered, sold for \$46.00 a ton.

DISTILLERY AND BREWERY BY-PRODUCTS.

DISTILLERS' DRIED GRAINS LARGELY FROM CORN.

Analyses on pages 98 to 101.

The feeding stuffs classified as being "Distillers' Dried Grains Largely from Corn" found being offered for sale included eight brands, the product of separate firms numbering 20 samples. One of these brands was not registered. One sample was found deficient in protein and five deficient in fat. The majority of the shipments represented by samples received were guaranteed to contain 30 per cent. protein, and as a rule these guarantees were exceeded. The protein varied from 28.50 per cent. to 35.69 per cent., averaging 32.19 per cent.; the fat varied from 6.76 per cent. to 12.74 per cent., averaging 11.01 per cent. and the fiber varied from 7.12 per cent. to 12.74 per cent., averaging 11.35 per cent. The selling prices were from \$35

to \$65 a ton, averaging \$49.30, which was \$13.52 in excess of the average retail price for the samples received in 1916. That having the lowest price contained 31.75 per cent. protein and the brand selling for \$65 a ton was found, upon analysis, to contain 35.69 per cent. protein.

DISTILLERS' DRIED GRAINS LARGELY FROM RYE.

Analyses on pages 100 and 101.

This grade of distillers' grains was not offered for sale to a great extent during the year, as only one sample was received. It consisted for the most part of the residue from rye, resulting in the processes of distillation. The shipment was properly guaranteed and the sample analyzed 16.38 per cent. protein, 9.15 per cent. fat and 12.62 per cent. fibre. The selling price was \$1.60 per 100 pounds, or at the rate of \$32.00 a ton, which was in excess of the average price of \$26.83 for the three samples included in the 1916 Report.

DISTILLERS' AND YEAST DRIED GRAINS.

Analyses on pages 100 and 101.

In this group were placed the seven samples of by-product feeds found being offered for sale in the State which are secured from the processes of manufacturing yeast, including the yeast dried grains mixed with distillers' dried grains. This product contains less protein than the dried grains from corn and more than rye distillers' dried grains, the mash consisting, as a rule, of the residue from corn, rye, barley malt and malt sprouts. The samples represented two brands registered by different firms and were found to be guaranteed, no deficiencies being noted. The protein varied from 19.38 per cent. to 25.69 per cent., averaging 21.34 per cent.; the fat varied from 6.60 per cent. to 7.84 per cent. and averaged 7.67 per cent. and the fiber varied from 16.08 per cent. to 18.27 per cent., averaging 16.85 per cent. The selling prices were from \$40 to \$60 and averaged \$46.14 a ton. This price also showed an increase over the average price of \$30.75 observed for the samples secured in 1916.

BREWERS' DRIED GRAINS.

Analyses on pages 100 to 103.

The samples of brewers' dried grains analyzed numbered 17, including the brands of 12 different firms. All the shipments sampled were found guaranteed and two brands were not registered. One sample was found to be deficient in both protein and fat and three in protein alone. One brand was labeled with both minimum and maximum guarantees, and in the samples guaranteed in this manner, the protein content, upon analysis, met the lower guarantees only. Considerable variation was found in the composition of these samples

as follows: Protein, lowest 19.19 per cent., highest 35.79 per cent., average 26.65 per cent.; lowest fat, 6.16 per cent., highest 8.70 per cent., average 7.35 per cent.; fiber, lowest 11.01 per cent., highest 16.56 per cent., average 14.24 per cent. The selling prices noted were from \$24 to \$60, averaging \$46.06 a ton. This price was in excess of the average of \$29.48 received for samples secured in 1916.

MALT SPROUTS.

Analyses on pages 102 and 103.

Only two samples of malt sprouts were obtained by the Special Agents representing two brands of this product being sold in the State. Both samples, upon analysis, ran close to their guarantees, although they contained small amounts of whole weed seeds. The protein varied from 24.88 per cent. to 26.06 per cent., averaging 25.47 per cent.; the fat varied from 1.64 per cent. to 2.46 per cent., averaging 2.05 per cent., and the fiber varied from 11.36 per cent. to 13.09 per cent., averaging 12.22 per cent. The selling prices received were from \$39 to \$45, averaging \$42 a ton. The average price was \$12 in excess of the average value noted during the previous year.

MAIZE BY-PRODUCTS.

CORN GLUTEN FEED.

Analyses on pages 102 to 107.

Eleven brands, the product of 10 manufacturing firms, were found being disposed of during the year, and 32 samples were submitted for analysis. Two of these brands were not registered, one sample of which was not guaranteed and another sample of a registered brand was from a shipment where the guarantees were not attached as required. One sample was found deficient in protein and three in fat. The variations in analysis were as follows: Protein, lowest 21.88 per cent., highest 30.75 per cent., average 25.78 per cent.; fat, lowest 1.24 per cent., highest 4.47 per cent., average 2.36 per cent. and fiber, lowest 5.32 per cent., highest 8.24 per cent., average 6.83 per cent. The selling prices ranged from \$27 to \$65 and averaged \$48.26 a ton. The average price of the previous year's samples was \$35.54 a ton.

CORN GLUTEN MEAL.

Analyses on pages 106 and 107.

Only one brand of corn gluten meal was found being offered for sale and the one sample received was found, upon analysis, to contain 45.56 per cent. protein, 0.86 per cent. fat, 1.39 per cent. fiber. The fat was low, although the protein guarantee was exceeded. This product, which results from the manufacture of starch and consists largely of the hard, flinty part of the corn, has not been available in large quantities and only a few samples have been received from time to time. The selling price was \$2.35 per 100 pounds, or at the rate of \$47 a ton.

HOMINY FEED.

Analyses on pages 106 to 109.

Ten brands of hominy feed, the output of as many firms, were found for sale in the State and 18 samples were submitted for analysis. Two brands were not registered and one sample of one of these brands represented a shipment which was not guaranteed as required. In the case of those shipments where guarantees were found, no deficiencies were noted in analysis, the guarantees as a rule being exceeded. The content of protein in this product was fairly constant, while the fat showed some variation, the analyses being as follows: Protein, lowest 10.44 per cent., highest 12.56 per cent., average 11.55 per cent.; fat, lowest 5.14 per cent., highest 8.68 per cent., average 7.01 per cent.; fiber, lowest 2.22 per cent., highest 5.68 per cent., average 4.41 per cent. The selling prices which showed a wide range were from \$40 to \$80 and averaged \$55.22 a ton. The average price in the 1916 samples was \$38.64 a ton.

CORN BRAN.

Analyses on pages 108 and 109.

Only one sample of corn bran was received, representing a brand not registered with the Department. The shipment, however, was guaranteed and the sample, upon analysis, analyzed 11.06 per cent. protein, 7.68 per cent. fat and 6.29 per cent. fiber. The selling price was \$2.60 per 100 pounds, or \$52 a ton. This price, which represented only one sample, cannot be fairly claimed as the average selling price of this class of feed, although it exceeded the average of \$30.57 a ton for the seven samples received in 1916.

CORN FEED MEAL.

Analyses on pages 108 and 109.

There were four samples of corn feed meal received, representing three registered brands, one shipment of which was not guaranteed. No deficiencies were noted. There was very little variation in the

analyses, which were as follows: The protein ranged from 8.94 per cent. to 10.19 per cent., averaging 9.39 per cent.; the fat ranged from 3.18 per cent. to 3.69 per cent., averaging 3.44 per cent., and the fiber ranged from 1.66 per cent. to 3.49 per cent., averaging 2.34 per cent. The selling price showed considerable variation or from \$44 to \$80, averaging \$66.60 a ton. This average price also exceeded that noted during the previous season's inspection work of \$38.60 a ton.

WHEAT OFFALS.

LOW GRADE FLOUR.

Analyses on pages 108 and 109.

Low grade flour middlings or "Red Dog" included five samples and 4 brands, which represented guaranteed shipments. They were found to be as certified and to exceed the guarantees upon analysis. The protein varied from 14.44 per cent. to 19.13 per cent., averaging 16.45 per cent., the fat varied from 3.75 per cent. to 5.06 per cent., averaging 4.29 per cent., and the fiber varied from 1.85 per cent. to 4.08 per cent., averaging 2.79 per cent. The selling prices ranged from \$51 to \$71 and averaged \$58.20 a ton. The average price for those samples received in 1916 was \$36.60 a ton.

WHEAT MIDDINGS.

Analyses on pages 108 to 113.

There were 39 samples, including 33 brands, received representing the wheat offals sold for pure wheat middlings by 30 companies. There were 15 brands not registered and 9 samples were from shipments not guaranteed. One sample was deficient in protein and three in fat and a small amount of ground screenings was found present in two samples, those remaining being pure wheat middlings as claimed. The protein ranged from 14.75 per cent. to 20.06 per cent., averaging 16.67 per cent.; the fat ranged from 3.58 per cent. to 6.76 per cent., averaging 5.00 per cent. and the fiber ranged from 3.24 per cent. to 8.94 per cent., averaging 5.66 per cent. There was considerable variation in the retail selling prices which were from \$38 to \$70, averaging \$50.62 a ton, being considerably in excess of the average price of \$35.93 for the wheat middlings received in 1916.

WHEAT MIDLINGS WITH ADMIXTURES.

Analyses on pages 114 to 119.

The number of samples received and classified as "Wheat Middlings with Admixtures," representing the products found being labeled and sold in this manner was 40, all but two of which represented guaranteed shipments. There were 32 brands, the output of 29 companies, and five of these brands were not registered. No deficiencies were found upon analysis, the guarantees being for the most part exceeded. Five samples representing one brand were the refuse cleaning middlings from the manufacture of tin plate and consisted of wheat and rye middlings with palm oil. The remaining samples were wheat middlings with varying proportions of ground screenings, the greater portion of them being labeled to contain the mill run of ground screenings. A trace of whole weed seeds was found present in one sample. The protein varied from 13.06 per cent. to 19.69 per cent., averaging 16.53 per cent.; the fat varied from 3.81 per cent. to 8.53 per cent., averaging 5.40 per cent., and the fiber varied from 3.55 per cent. to 10.14 per cent., averaging 6.50 per cent. There was also a wide variation in the selling prices in this class of feeds, which were from \$34 to \$68, averaging \$47.58 a ton. The average price of wheat middlings with admixtures secured during the previous year was \$31.70 a ton.

MIXED FEED: WHEAT BY-PRODUCTS.

Analyses on pages 120 and 121.

There were only seven samples of wheat mixed feeds secured during the year, including 6 different companies' brands, one of which was not registered, all being guaranteed, no deficiencies being found. They consisted for the most part of mixtures of wheat bran and wheat middlings with small amounts of ground grain screenings. Each sample, upon analysis, exceeded its guarantees and the protein varied from 15.63 per cent. to 18.00 per cent., averaging 16.66 per cent.; the fat varied from 4.46 per cent. to 6.26 per cent., averaging 5.13 per cent., and the fiber varied from 4.23 per cent. to 8.50 per cent., averaging 6.66 per cent. The prices received were from \$42 to \$65, averaging \$51 a ton, which also exceeded the average of \$36.10 a ton for the 10 samples of wheat feeds included in the 1916 report.

WHEAT BRAN.

Analyses on pages 120 to 125.

The 20 brands of wheat bran found being offered for sale in the State are represented by 27 samples, four of which were not guaranteed and there were three brands not registered. These products were sold as pure wheat bran and with the exception of two samples in which small amount and traces of ground screenings were found

present, were as certified. There were no deficiencies, the guarantees as a rule being considerably exceeded. The method of labeling these products has improved, as in no case were large amounts of ground screenings and whole weed seeds found present, as observed during previous years. The protein varied from 14.19 per cent. to 17.56 per cent., averaging 15.85 per cent.; the fat varied from 3.99 per cent. to 6.79 per cent., averaging 4.87 per cent., and the fiber varied from 7.41 per cent. to 11.72 per cent., averaging 9.13 per cent. The prices were from \$32 to \$51, averaging \$42.85 a ton, which in this class of feed also increased over the average price of \$29.80 for last year.

WHEAT BRAN WITH ADMIXTURES.

Analyses on pages 124 to 129.

There were 29 brands of "Wheat Bran with Admixtures" offered for sale during the year by 28 companies and the number of samples received for analysis was 33, two of which represented shipments not guaranteed and nine of these brands were not registered. The shipments sampled were labeled to contain the mill run of ground grain screenings and were found to be as claimed with the exception of one sample in which a trace of small whole weed seeds was found present and in another where middlings was mixed with the bran. No deficiencies were noted, the guarantees as a rule being exceeded. The variations in analyses were: Protein, lowest 14.19 per cent., highest 18.25 per cent., average 15.85 per cent.; fat, lowest 4.02 per cent., highest 6.74 per cent., average 4.93 per cent.; fiber, lowest 6.29 per cent., highest 10.89 per cent., average 9.21 per cent. Wide variations existed in the selling prices, which ranged from \$34 to \$60, averaging \$43.44 a ton. The average price for this class of feeds in 1916 was \$28.46 a ton.

RYE OFFALS.

RYE MIDDINGS.

Analyses on pages 128 and 129.

Only one sample of rye middlings was secured during the year, representing a shipment guaranteed and registered. The analysis, which exceeded the guarantees, was as follows: Protein 18.44 per cent., fat 3.55 per cent., fiber 5.16 per cent., selling price \$2.50 for 100 pounds, or at the rate of \$50 a ton. The two samples of rye middlings received during the previous year averaged \$31.60 a ton.

WHEAT AND RYE OFFALS.

Analyses on pages 128 and 129.

Only one sample of this class of feed, being a mixture of wheat and rye middlings with ground screenings not exceeding mill run, was secured for analysis, representing a shipment guaranteed and registered. The guarantees were exceeded, the sample analyzing: Protein, 16.13 per cent., fat 4.44 per cent., fiber 6.99 per cent. The price received was \$2.50 for 100 pounds, or at the rate of \$50 a ton.

OAT BY-PRODUCTS.

OAT MEAL.

Analyses on pages 130 and 131.

One brand of feed was found being sold in the State as oatmeal which was not registered and two samples were submitted for analysis, both being guaranteed. The average analysis was 15.22 per cent. protein, 8.01 per cent. fat, 1.12 per cent. fiber, and sold for \$6.50 per 100 pounds.

OAT FEED.

Analyses on pages 130 and 131.

Four samples of a by-product from the oat milling industry were secured for analysis, including three brands which were sold as "Oat Feed." All were from guaranteed shipments, one brand not being registered. One sample was found to be deficient in protein, those remaining exceeded the guarantees. The protein varied from 4.25 per cent. to 7.63 per cent., averaging 6.38 per cent.; the fat varied from 1.43 per cent. to 3.64 per cent., averaging 2.61 per cent., and the fiber varied from 23.03 per cent. to 29.68 per cent., averaging 26.08 per cent. The selling prices were from \$26.50 to \$30, averaging \$28.63 a ton. These products consisted for the most part of oat hulls and the average price was \$2.63 in excess of the average for the few samples of oat feeds in 1916.

BUCKWHEAT OFFALS.

BUCKWHEAT MIDDINGS.

Analyses on pages 130 and 131.

The by-product from the manufacture of buckwheat flour is represented by three samples and brands of buckwheat middlings, two of

which were not registered nor guaranteed. The guarantees, upon analysis, were sustained. The protein varied from 26.88 per cent. to 30.88 per cent., averaging 28.86 per cent.; the fat varied from 7.81 per cent. to 9.36 per cent., averaging 8.34 per cent. and the fiber varied from 4.70 per cent. to 12.68 per cent., averaging 8.24 per cent. The selling prices secured were from \$2.00 to \$2.75, averaging \$2.50 per 100 pounds, or at the rate of \$50 a ton, exceeding the average ton price of \$37.00 for the buckwheat middlings received last year.

ALFALFA MEAL.

Analyses on pages 130 to 133.

There were 12 samples of alfalfa meal received, including 10 separate brands, two of which were not registered. Three of the samples were secured from shipments not guaranteed, and of those labeled with guarantees, no deficiencies were found upon analysis. Variations noted in the composition were as follows: Protein, lowest 12.13 per cent., highest 18.06 per cent., averaging 14.67 per cent.; fat, lowest 1.73 per cent., highest 3.17 per cent., averaging 2.08 per cent.; fiber, lowest 22.29 per cent., highest 32.57 per cent., averaging 29.44 per cent. The selling prices were from \$35 to \$60, averaging \$42.33 a ton, exceeding the 1916 price of \$31.50.

DRIED BEET PULP.

Analyses on pages 132 and 133.

Only one brand of dried beet pulp was found being sold in the State and three samples were secured for analysis. This product shows very little variation in its composition, the guarantees being sustained upon analysis. The average composition was as follows: Protein, 9.73 per cent., fat 0.77 per cent., fiber 18.82 per cent. The average price was \$40.67 a ton. The average price for 1916 was \$30.80 a ton.

MIXED FEEDS—PROPRIETARY AND MISCELLANEOUS.

Nearly two-thirds of the samples of feeding stuffs secured for analysis during the year represented the various classes of mixed feeds being sold in the State. A larger proportion of these samples

were those having distinct or proprietary brand names and they included 371 separate brands, all but 42 samples being secured from shipments guaranteed. Of the total number of mixed feeds found labeled with the guarantees, three were deficient in both protein and fat, 18 in protein alone, and 36 in fat alone, being a less number of deficiencies than noted in the samples of mixed feed analyzed during the previous year. The guarantees were, as a rule, exceeded and the list of ingredients claimed were in the majority of cases found to be as certified. Those cases where variations in the composition were found numbered less than 100, and in addition to these cases there were 125 samples, mostly poultry foods, in which small amounts and traces of small weed seeds were found present, and 13 samples which contained large amounts of whole weed seeds. The variations for the compositions claimed consisted for the most part in not being able to detect a claimed ingredient. A number of brands of mixed feeds were found being sold which were not registered and some of these were feeds guaranteed and upon analysis found to contain crude fiber in excess of the amount permitted where oat hulls were used in the composition. There was one sample of feed consisting of ground peanut hulls with palm oil being the refuse from the tin plate cleaning process which represented a shipment sold in violation of the law. There was considerable variety in the character and composition of the several mixed feeds sampled and in order that those of similar or like character could be compared they were arranged in 10 classes or groups. These groups, together with the number of samples in each, are as follows: Proprietary Dairy Feeds, 92; Proprietary Dairy Feeds with Molasses, 100; Proprietary Stock, Horse and Mule Feeds, 98; Proprietary Stock, Horse and Mule Feeds with Molasses, 150; Proprietary Calf Meals, 15; Proprietary Swine Feeds, 12; Proprietary Chop Feeds, 26; Miscellaneous Chop Feeds, 22; Miscellaneous Feeds, 2, and Proprietary Poultry Foods, 200. The results of analyses and examinations will be found in the large table.

PROPRIETARY DAIRY FEEDS.

Analyses on pages 132 to 161.

The mixed feeds received and classified as Proprietary Dairy Feeds numbered 92 samples, and with three exceptions were secured from guaranteed shipments, the output of 25 companies. They included 29 different brands, five of which were found being sold which were not registered and one of these was guaranteed to contain fiber in excess of the amount permitted. There was only one sample which was found deficient in protein and 11 in fat, the majority exceeding the guarantees upon analysis. This class of feeds are of the more concentrated type and nearly all were guaranteed to contain 20 per cent. or more of protein. They were composed largely of well-known

by-products, such as cottonseed meal, linseed oil meal, corn oil meal, distillers' and brewers' dried grains, wheat offals, corn gluten feed, hominy feed, etc. A microscopical examination of these samples showed them to contain as a rule the ingredients claimed. In five samples, small amounts of whole weed seeds were found present and in two cases oatmeal mill by-product was identified instead of clipped oat by-product claimed. In one sample where distillers' dried grains was listed, the product was identified as distillers' dried grains from Kaffir corn. The analysis of the samples showed the protein to vary from 10.19 per cent. to 28.31 per cent., averaging 22.89 per cent.; the fat to vary from 3.03 per cent. to 10.37 per cent., averaging 6.02 per cent. and the fiber to vary from 3.60 per cent. to 15.44 per cent., averaging 10.81 per cent. An increase in the selling prices was noted in this group of mixed feeds over those prevailing last year, ranging from \$38 to \$65, averaging \$52.28 a ton. The lowest and highest retail prices obtained in 1916 were \$29 and \$44, respectively.

PROPRIETARY DAIRY FEEDS WITH MOLASSES.

Analyses on pages 160 to 185.

The number of samples of mixed feeds representing this class of feeding stuffs received any analyzed was 100, all of which were secured from guaranteed shipments. They were of the more concentrated type containing molasses and usually referred to as "Molasses Feeds." The ingredients used, in addition to the molasses, consisted for the most part of ground grain screenings which appeared in nearly every sample as the principle ingredient, together with varying amounts of cottonseed meal, linseed oil meal, cocoanut oil meal, corn gluten feed, distillers' dried grains, brewers' dried grains, yeast dried grains, malt sprouts, cocoa shell meal, alfalfa, wheat bran, wheat middlings, clipped oat by-product, oatmeal mill by-products and maize by-products. There were 31 separate brands included, being the products of 23 companies, and three of these brands were not registered, two of which were guaranteed and upon analysis found to contain fiber in excess of the amount permitted where oat hulls entered into the composition. The guarantees for protein which varied from 11 per cent. to 25 per cent. included 48 samples guaranteed to contain from 15 per cent. to 25 per cent. and 38 samples were guaranteed 16.50 per cent. protein. Upon analysis three samples were found deficient in both protein and fat, nine in protein alone, and seven in fat alone, the majority exceeding the guarantees. About one-four, or 29, of the samples showed the presence of traces and small amounts of whole weed seeds and there were three samples in which cocoa shell meal and buckwheat hulls were found present in addition to the ingredients claimed, the protein and fat in these cases being also deficient.

A few additional samples showed minor variations in composition, one brand containing ground grain screenings instead of "grain middlings," and one oatmeal mill by-product instead of clipped oat by-product. Aside from these variations, the general character of these feeds appeared normal and no samples were found to contain large amounts of whole weed seeds. The protein varied from 9.69 per cent. to 28.44 per cent., averaging 17.69 per cent.; the fat varied from 0.93 per cent. to 7.87 per cent., averaging 4.55 per cent., and the fiber varied from 6.95 per cent. to 20.99 per cent., averaging 14.33 per cent. The prices ranged from \$30 to \$60, averaging \$43.61 a ton, which price in these feeds also were in excess of the minimum of \$20 and maximum of \$40 a ton noted in the 1916 samples.

PROPRIETARY STOCK, HORSE AND MULE FEEDS.

Analyses on pages 184 to 211.

This class of mixed feeds is represented by 98 samples and 38 brands, the product from 28 firms, all except one sample being secured from guaranteed shipments. There were eight brands not registered, two of these being feeds containing oat hulls with fiber in excess of the amount permitted. This class of feeding stuffs is less concentrated than the two foregoing classes, more than one-half, or 55, of the samples being guaranteed to contain 10 per cent. of protein. The remaining samples, with the exception of two samples showing guarantees of 17 and 18 per cent. of protein, were labeled with guarantees of from 7 to 12 per cent. protein. These guarantees upon analysis were, as a rule, exceeded, only two being found deficient in protein and four in fat. As will be noted in a few cases, slight variations were found in their compositions, where the ingredients were not fully listed and where barley was not found as claimed in 10 samples. Only two samples were found to contain traces of weed seeds. The ingredients used consisted of cottonseed meal, linseed oil meal, corn oil meal, brewers' dried grains, ground grain screenings, corn gluten feed, alfalfa, wheat bran and middlings, rye middlings, hominy feed, corn feed meal, corn bran, oatmeal mill by-product, clipped oat by-product and corn, oats, barley, puffed rice, and puffed wheat. The results of analyses showed the protein to vary from 9 to 22 per cent., averaging 11.32 per cent.; the fat from 1.83 to 6.86 per cent., averaging 4.64 per cent., and the fiber from 3.96 per cent. to 16.65 per cent., averaging 10.25 per cent. The retail prices prevailing showed a wide range of from \$32 to \$80, averaging \$52.99 a ton. The prices for the previous years' feeds of this class were from \$27 to \$48 a ton.

PROPRIETARY STOCK, HORSE AND MULE FEEDS WITH MOLASSES.

Analyses on pages 210 to 233.

Of the various brands of molasses feeds found being sold in the State, 150 samples classified as "Proprietary Stock, Horse and Mule Feeds with Molasses" were received, including 79 brands, the output of 44 companies, all but two of the samples representing guaranteed shipments. With the exception of the poultry foods, as was the case during the previous year's inspection work, this class of feeds is represented by the greatest number of samples and brands. Of the total number examined, the greater portion, or 83 samples, were guaranteed to contain 10 per cent. of protein. There were 45 with 9 per cent. protein guarantees and two with 14 per cent., and one with 15 per cent. guarantees. Fourteen of the brands sampled, one of which contained fiber in excess of the amount permitted, were not registered. The guarantees with the exception of one sample low in fat, were exceeded upon analysis. Approximately one-half of the samples were mixtures of corn, oats, alfalfa and molasses, and those remaining were mixtures including the following ingredients: Corn, oats, barley, prepared wheat, flaxseed, cottonseed meal, distillers' dried grains, corn gluten feed, corn feed meal, ground grain screenings, wheat bran, wheat middlings, oatmeal mill by-product, clipped oat by-product, alfalfa, hay, and molasses. One sample was found to contain a large amount of whole weed seeds. As will be noted, a few of the samples showed variations from the composition claimed, one sample containing a large amount of whole weed seeds, six containing no barley, and five containing barley in addition to ingredients listed. Three samples contained traces and small amounts of whole weed seeds, three contained oatmeal mill by-product instead of clipped oat by-product and in six samples cottonseed meal was not found present in the samples as claimed. Aside from these variations noted the character of this class of feeds was good, there being no samples found mouldy and musty and in damaged condition as was the case in a few samples of this class of feeds secured in 1916. The analysis showed variations in protein of from 8.94 per cent. to 17.88 per cent. with an average of 11.28 per cent.; the fat ranged from 0.98 per cent. to 5.20 per cent., averaging 2.85 per cent. and the fiber ranged from 4.71 per cent. to 21.20 per cent., averaging 12.31 per cent. A wide variation was noted in the selling prices, which were from \$24 to \$70, averaging \$52.70 a ton, exceeding the minimum and maximum prices prevailing last year of \$28 and \$45, respectively.

PROPRIETARY CALF MEALS.

Analyses on pages 232 to 235.

Those mixed feeds being sold for calf meals and secured from six brands, the output of five companies, found being sold in the State numbered 15 samples, all with one exception being guaranteed. There

was one sample sold as lamb meal included in this class which was not registered. They were guaranteed to contain from 18 to 33 per cent. of protein and these guarantees were exceeded upon analysis except in one case, where the protein was found to be deficient. They were all found to be clean in their character and the ingredients of which they were composed were found to be as certified. They were composed of the more concentrated by-products, as will be noted by referring to the large table. The analyses showed the following variations: Protein, lowest 17.50 per cent., highest 34.19 per cent., average, 26.13; fat, lowest 3.84 per cent., highest 9.79 per cent., average 5.89 per cent.; fiber, lowest 2.62 per cent., highest 8.20 per cent., average 4.81 per cent. The prices were from \$55 to \$100, averaging \$79.80 a ton, slightly exceeding the prices prevailing for the calf meals shown in the previous report.

PROPRIETARY SWINE FEEDS.

Analyses on pages 234 to 239.

Twelve samples sold and classified as "Proprietary Swine Feeds" were secured from shipments found guaranteed as required. They included nine different brands, from eight companies, and three of these brands were not registered. The ingredients listed were found to be as claimed except in one case where "grain middlings" was identified as ground grain screenings. One sample was found deficient in protein and four in fat. They were composed for the most part of ground grain screenings, linseed oil meal, locust bean meal, cottonseed meal, corn oil cake meal, tankage, blood, brewers' dried grains, malt sprouts, wheat offals, cocoa shell meal and ground grains, as will be noted by referring to the table of analyses. The variations in analyses showed the protein to range from 16.04 per cent. to 20.38 per cent., averaging 18.77 per cent.; the fat to range from 4.12 per cent. to 10.61 per cent., averaging 5.70 per cent., and the fiber to range from 5.91 per cent. to 12.91 per cent., averaging 7.89 per cent. The prices showed a wide range of from \$38 to \$85, averaging \$53.41 a ton, also exceeding those of from \$30 to \$37 a ton of the previous year's samples.

PROPRIETARY CHOP FEEDS.

Analyses on pages 238 to 243.

The mixed feeds received and classified as "Chop Feeds" having proprietary brand names numbered 26 samples and included 15 brands from 12 companies. They were all secured from guaranteed shipments and upon analysis nearly all exceeded the guarantees, there

being only three deficiencies in fat. There were three brands with one sample each which were not registered. These feeds were composed for the most part of whole and ground corn, oats, barley, rye, ground screenings, hominy feed, corn meal, corn bran, oat middlings, oat groats, oat hulls, wheat middlings and cottonseed meal. The compositions were found correct except, as will be noted, in a few cases where minor variations occurred. Most of the brands were guaranteed to contain 8 to 9 per cent. of protein and the results of analysis showed the protein to vary from 8.06 per cent. to 15.69 per cent., averaging 9.90 per cent.; the fat to vary from 2.77 per cent. to 6.16 per cent., averaging 4.07 per cent., and the fibre to vary from 5.07 per cent. to 11.44 per cent., averaging 8.41 per cent. The selling prices were from \$35 to \$93, averaging \$51.88 a ton, exceeding the prices prevailing in 1916 which were from \$30 to \$43 a ton.

MISCELLANEOUS CHOP FEEDS.

Analyses on pages 244 to 247.

This group includes the 22 samples received which consisted of whole chopped or ground grains not having distinct brand names and those chop feeds which were mixtures of whole grains with ground grain screenings, wheat middlings, rye distillers' grains, hominy feed, corn feed meal, oat middlings, oat shorts and oat hulls. The shipments sampled were from 20 different firms and included 21 products. There were 10 samples of whole grain chops not labeled with guarantees, seven of which were not registered, but this information was not required in these cases. There were four other brands of feeds being mixtures of whole grains with by-products which were not registered as required. There were four samples where the ingredients were not correctly and fully stated, and one sample was found to be deficient in fat. This class of chop feeds consisted of one corn chop analyzing 9.91 per cent. protein, 3.80 per cent. fat, 1.98 per cent. fiber; three oat chops averaging 11.31 per cent. protein, 5.46 per cent. fat, 10.11 per cent. fiber, with a selling price of \$2.85 per 100 pounds; seven corn and oat chops averaging 10.41 per cent. protein, 3.99 per cent. fat, 5.06 per cent. fiber averaging \$58.86 a ton, and 11 chop feeds being mixtures of whole grains with by-products as indicated, analyzing from 8.13 per cent. to 12.31 per cent. protein, 1.57 per cent. to 5.76 per cent. fat and 3.08 per cent. to 11.57 per cent. fiber. The prices were from \$1.95 to \$4.65 per 100 pounds.

MISCELLANEOUS FEEDS.

Analyses on pages 246 and 247.

Two brands of feeds were found being sold in the State which were not registered with the Department and samples of these were secured

for analysis which were classed as "Miscellaneous." One sample was sold as "Vegetable Tankage," being prepared garbage in which traces of glass was found present. It analyzed 19.44 per cent. protein, 4.12 per cent. fat and 7.97 per cent. fiber and sold for \$1.20 per 100 pounds. The other sample secured was taken from a carload sold as "P. P. Meal" which was found, upon analysis and examination, to be ground peanut hulls with a small amount of palm oil. This product was a refuse from the process of cleaning tin plate. As the law prohibits the sale of products of this character, at the direction of the Department, the carload was shipped out of the State.

PROPRIETARY POULTRY FOODS.

Analyses on pages 248 to 291.

During the year the Special Agents submitted 200 samples of poultry foods for examination which exceeded in number and variety the other classes of feeds found being sold in the State. They included 141 brands, the output of 75 manufacturing and jobbing firms, most of the brands having distinct or proprietary names. There were 44 brands not registered and 24 samples were secured from shipments not guaranteed, although some of these cases where the feeds were mixtures of whole grains, this information was not required. Of the total number guaranteed, four were deficient in protein and five in fat, and nearly one-half of the samples were found to contain traces and small amounts of whole weed seeds and 12 contained large amounts of these foreign seeds. In a number of cases variations in the composition claimed were noted, including four cases where sunflower seed and three where dried beet pulp were absent. There were several samples where a single ingredient, such as cottonseed meal, corn gluten feed and buckwheat were absent and where complete composition was not shown. This group of mixed feeds includes two types, differing from each other in character and composition and in order that they may be compared they were arranged in the large table of analyses as "Whole Grain Scratch Feeds" and "Mash Feeds."

The whole grain scratch feeds numbered 147 samples and 99 different brands, including three brands of feeds sold as "Pigeon Feed," 24 of the brands not being registered. These scratch feeds were composed of mixtures of whole and cracked grains, including in many samples small amounts of charcoal and grit, three containing cracked linseed oil cake, two hominy feed and five oatmeal. Two-thirds of these samples were guaranteed to contain 10 per cent. of protein, the remaining guarantees being from 8 to 13 per cent. The composition upon analysis varied in protein from 7.94 per cent. to 14.44 per cent., averaging 11.11 per cent.; in fat from 2.23 per cent. to 5.67 per

cent., averaging 3.35 per cent. and in fiber from 1.51 per cent. to 4.34 per cent., averaging 2.78 per cent. The selling prices were from \$51 to \$100, averaging \$75.07 a ton. There were two samples found deficient in fat. This group of feeds was not as free from criticism as they should be, as of the total number of samples of poultry food, 82 contained traces and small amounts of whole weed seeds and in 12 samples large amounts of whole weed seeds were present.

The samples classified as "Mash Feeds" numbered 53, including 42 brands, 20 of which were not registered as required. There were four samples where no guarantees were given and upon analysis four were found deficient in protein and three in fat. This group were composed of mixtures of whole, cracked and ground grains with one or more of the well-known concentrated types of feeding stuffs, as will be noted by referring to the large table of analyses. They were more concentrated in their character as compared with the whole grain scratch feeds having protein guarantees more frequently in the neighborhood of 14 per cent. to 20 per cent., ranging all the way from 9 per cent. to 25 per cent. The analyses showed variations in protein from 12.50 per cent. to 25.81 per cent., averaging 18.54 per cent.; in fat, from 2.46 per cent. to 7.56 per cent., averaging 4.68 per cent., and in fiber from 2.81 per cent. to 11.41 per cent., averaging 7.24 per cent. The selling prices were from \$41 to \$100, averaging \$66.35 a ton. The variations from the composition included two samples showing small amounts of weed seeds and several where the composition was not correctly and fully given.

The selling prices show increases over those prevailing last year, which averaged \$48.56, whereas the averages for those included in this report were \$75.07 in the case of scratch grains and \$66.35 for the mash feeds. The analyses and composition of poultry foods will be found in detail in the large table.

ANIMAL BY-PRODUCTS.

Analyses on pages 290 to 297.

The samples of animal by-products received and analyzed during the year numbered 52, all but two being secured from guaranteed shipments. There were 33 brands included, the product of 20 differ-

ent firms, three brands not being registered. The samples included ground meat scraps, meat and bone scrap, fish scrap and tankage. Four brands were guaranteed with both minimum and maximum guarantees for protein and with one exception the higher guarantees were not met upon analysis, several failing to meet the lower guarantees. The deficiencies included one in both protein and fat, 12 in protein alone, and three in fat alone. The products were as a rule found to be as certified, as will be noted. The protein in these products varied from 27.38 per cent. to 66.44 per cent., averaging 49.78 per cent.; the fat varied from 2.25 per cent. to 17.45 per cent., averaging 11.41 per cent. and the determinations for fiber varied from 0.31 per cent. to 5.77 per cent., averaging 1.93 per cent. The selling prices showed a wide range from \$23 to \$130, averaging \$77.39 a ton, which shows increases over the prices prevailing last year of from \$40 to 100 per ton.

CONDIMENTAL STOCK AND POULTRY FOODS.

Analyses on pages 296 and 297.

This group of products is represented by six samples and four registered brands. Three of the samples were from packages showing no guaranteed analysis. Two of the samples not guaranteed were sold as conditioners, the composition being given in one case. These products were composed principally of condimental substances mixed with some feeding stuffs including wheat middlings, corn meal, dried beef and bone and powdered milk, as will be noted by referring to the table showing this information. The analyses showed wide variations in composition, no average being computed for this group. The protein ranged from 4.94 per cent. to 15.69 per cent.; the fat from 1.62 per cent. to 5.11 per cent. and the fiber from 2.43 per cent. to 32.43 per cent. The prices for this class of products is high, especially when purchased in small lots and on the ton basis ranged from \$80 to \$460 a ton.

ANALYSIS OF FEEDING STUFFS COLLECTED BY SPECIAL AGENTS.

The analytical results and the microscopical examinations of each of the official samples of feeding stuffs obtained by special agents during 1916, have been tabulated and are included in the following table No. IV. They have been arranged in classes or groups as shown in Table No. II, like feeds and brands being placed together for comparison and averaging. Where two or more samples of the same kind, brand or class of products were analyzed, the average of the results secured is included. The samples are placed in alphabetical order of the names of manufacturers or importers in each group or class and the information includes the place and name of the party from whom the sample was secured, together with the results of analyses, the guarantees found upon sacks or attached cards, the selling price at the rate of 100 pounds or a ton, the list of ingredients claimed and the results of microscopical examinations. In referring to the following table, the various feeds will be found under the following general headings and subheadings:

OIL CAKE MEALS including cottonseed meal, cottonseed feed, old process linseed oil meal and cocqannt oil meal.

DISTILLERY AND BREWERY BY-PRODUCTS including distillers' dried grains largely from corn and rye, distillers' and yeast dried grains, brewers' dried grains and malt sprouts.

MAIZE BY-PRODUCTS including corn gluten feed, hominy feed, corn bran and corn feed meal.

WHEAT OFFALS including low grade flour, wheat middlings, wheat middlings with admixtures, mixed feed: wheat by-products, wheat bran and wheat bran with admixtnres.

RYE OFFALS including rye middlings.

WHEAT AND RYE OFFALS including wheat and rye middlings.

OAT BY-PRODUCTS including oatmeal and oat feed.

BUCKWHEAT OFFALS including buckwheat middlings.

ALFALFA MEAL.

DRIED BEET PULP.

MIXED FEEDS: PROPRIETARY AND MISCELLANEOUS, including proprietary dairy feeds, proprietary dairy feeds with molasses, proprietary stock, horse and mule feeds, proprietary stock, horse and mule feeds with molasses, proprietary calf meals, proprietary swine feeds, proprietary chop feeds, miscellaneous chop feeds, miscellaneous feeds and proprietary poultry foods.

ANIMAL BY-PRODUCTS.

CONDIMENTAL STOCK AND POULTRY FOODS.

TABLE IV.—ANALYSES OF SAMPLES OF

Chemists' Number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled at	Moisture.	Protein.	
				Found.	Guaranteed.
OIL CAKE PRODUCTS.					
COTTONSEED MEAL.					
	ASHCRAFT-WILKINSON CO., AT-LANTA, GA.		Per ct.	Per ct.	Per ct.
2661	Crown Brand, -----	Reading, F. S. Wertz & Son.	7.27	38.19	38.62
	THE J. E. BARTLETT CO., JACKSON, MICH.				
3142	Farmer Brand Prime, -----	Spangler, E. F. Dunm, --	7.61	34.83	38.6-41
2629	Farmer Brand Prime, -----	New Brighton, J. H. Hornby & Sons.	8.55	38.12	38.6-41
		Average, -----	8.08	36.50	-----
	BOWEN & MURPHY, BIRMINGHAM, ALA.				
2642	Cowslip,* -----	Beaver, A. F. Grine, -----	8.77	38.69	38.62
	F. W. BRODE & CO., MEMPHIS, TENN.				
2941	Dove Brand Prime,* -----	Emporium, Emporium Milling Co.	7.90	39.19	38.63
3515	Dove Brand Prime,* -----	Manheim, Lancaster County Farmers' Assn.	8.83	34.06	38.63
2550	Dove Brand Prime,* -----	Elizabethtown, Lehman & Wolgemuth.	7.49	40.50	38.63
3127	Dove Brand Prime,* -----	Milton, C. H. M McMahan,	7.29	38.81	38.63
2796	Dove Brand Prime,* -----	Vintage, Paradise Farmers' Assn., Inc.	7.57	38.38	38.63
		Average, -----	7.81	38.19	-----
	THE BUCKEYE COTTON OIL CO., CINCINNATI, OHIO.				
3456	Buckeye Good,* -----	New Oxford, J. H. Dutera.	6.40	39.56	36.00
	O. L. CAMPBELL & CO., LITTLE ROCK, ARK.				
3584	Baby Brand,* -----	Harmony, Harmony Cereal Mills.	9.11	39.13	36-38.5
3292	Single Hump Brand, -----	Lancaster, Jonas F. Eby & Son.	9.19	37.06	38.5-41
3235	Single Hump Brand, -----	Farrell, J. B. Roux, -----	8.52	39.06	38.5-41
		Average, -----	8.85	38.06	-----
	THE COTTONSEED PRODUCTS CO., LOUISVILLE, KY.				
2815	Good,* -----	Mill Hall, Continental Condensed Milk Co.	9.06	36.50	36.00
	S. P. DAVIS, LITTLE ROCK, ARK.				
3316	Beauty Brand, -----	Johnstown, Abram Hostet- tet Co.	9.21	37.19	36.00
3599	Beauty Brand, -----	Wilkes-Barre, Miner-Hillard Milling Co.	7.41	36.94	36.00
		Average, -----	8.31	37.07	-----

*Not registered.

FEEDING STUFFS COLLECTED IN 1917.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct.	Per ct.	Per ct.	Per ct.	\$			
7.69	6.00	10.78	10.00	2 70	Made from fully decorticated cottonseed.	Cottonseed meal and excessive amount of hulls.	2661
5.73	5-8	14.60	10-18	3 25	-----	Cottonseed meal and excessive amount of hulls.	3142
6.30	5-8	12.59	10-18	2 40	-----	Cottonseed meal and excessive amount of hulls.	2629
6.02	-----	13.59	-----	2 88			
8.62	6.00	9.18	12.00	2 60	-----	Cottonseed meal, -----	2642
6.32	6.00	10.00	12.00	3 00	Made from cottonseed,---	As certified, -----	2941
6.61	6.00	15.31	12.00	59 00	Made from cottonseed,---	Cottonseed meal and excessive amount of hulls.	3515
7.16	6.00	9.38	12.00	2 35	Made from cottonseed,---	As certified, -----	2550
6.46	6.00	10.95	12.00	2 50	Made from cottonseed,---	Cottonseed meal and excessive amount of hulls.	3127
6.41	6.00	10.68	12.00	2 40	Made from cottonseed,---	Cottonseed meal and excessive amount of hulls.	2796
6.59	-----	11.26	-----	52 80			
5.68	5.00	12.71	14.00	2 90	-----	Cottonseed meal and excessive amount of hulls.	3456
6.12	6-8	15.58	12-15	2 85	Made from decorticated cottonseed.	Cottonseed meal and excessive amount of hulls.	3584
6.71	6-8	11.04	8-12	-----	-----	Cottonseed meal and excessive amount of hulls.	3292
5.42	6-8	13.24	8-12	53 00	Made from decorticated cottonseed.	Cottonseed meal and excessive amount of hulls.	3235
6.07	-----	12.14	-----	53 00			
7.32	5.00	11.19	14.00	44 00	Made from cottonseed,---	Cottonseed meal and excessive amount of hulls.	2815
6.28	6.00	10.66	12.00	2 90	-----	Cottonseed meal and excessive amount of hulls.	3316
8.62	6.00	11.39	12.00	3 30	-----	Cottonseed meal and excessive amount of hulls.	3599
8.45	-----	11.02	-----	3 10			

TABLE IV.—ANALYSES OF SAMPLES OF

Chemists' Number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled at	Moisture.	Protein.	
				Found.	Guaranteed.
2773	Good Luck Brand, -----	Somerset, John G. Emert,	Per ct. 8.08	Per ct. 44.56	Per ct. 41.00
3495	Good Luck Brand, -----	Lancaster, John W. Eshelman.	6.48	44.44	41.00
		Average, -----	7.28	44.50	-----
2775	Veribest Brand, -----	Somerset, H. C. Beerits' Sons.	6.94	39.69	38.50
3006	Veribest Brand, -----	Palmyra, John B. Curry's Sons.	8.11	36.63	38.50
2413	Veribest Brand, -----	Windber, Claude Davis, --	9.10	37.63	38.5-41
3357	Veribest Brand, -----	Chambersburg, Diehl, Omwake & Diehl.	9.50	37.44	38.50
3331	Veribest Brand, -----	Philadelphia, Ezl. Dunwoody Co.	8.15	38.31	38.50
2854	Veribest Brand, -----	Titusville, Grange Milling Co.	7.94	36.56	38.50
3568	Veribest Brand, -----	Zelienople, J. J. Kennedy,	8.09	40.94	38.50
3408	Veribest Brand, -----	Brookville, Kline's Sifter Mills.	8.53	39.50	38.50
2675	Veribest Brand, -----	Butler, H. J. Klingler & Co.	7.07	37.69	38.50
2680	Veribest Brand, -----	Butler, George Walter & Sons.	6.85	38.00	38.50
2416	Veribest Brand, -----	Windber, Weaver & Berkeley.	8.24	37.00	38.5-41
		Average, -----	8.04	38.13	-----
2433	H. F. H. EBERTS, LITTLE ROCK, ARK. Milko,* -----	South Fork, J. E. Crisman.	9.51	35.06	38.62-43
2793	Milko,* -----	Gap, C. E. Brackbill, ---	8.84	38.44	38.62-41
2979	Milko,* -----	Goldsboro, Goldsboro Pure Feed Co.	8.85	38.44	38.62-43
		Average, -----	9.06	37.31	-----
2720	ELDRED MILL CO., JACKSON, MICH. Big League Prime,* -----	York, F. Loucks & Son, --	7.67	41.63	38.62
2924	Big League Prime,* -----	Punxsutawney, Mahoning Valley Milling Co.	7.77	39.69	38.62
2734	Big League Prime,* -----	York, Strayer Brothers Co.	8.05	38.88	38.62
		Average, -----	7.83	40.07	-----
2597	FARMER COTTON OIL CO., WILSON, N. C. Cottonseed Meal, -----	Norristown, Simpson Bros.	7.18	39.63	38.62
2828	GUS GRONAUER & CO., MEMPHIS, TENN. Daisy Brand, -----	Mechanicsburg, A. B. Harnish.	9.28	36.31	38.62
2818	Daisy Brand, -----	Tyrone, Tyrone Milling Co.	8.39	38.88	38.62
		Average, -----	8.83	37.60	-----

*Not registered.

FEEDING STUFFS COLLECTED IN 1917.—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct. 7.53	Per ct. 6.00	Per ct. 7.74	Per ct. 9.00	\$ 2 50	Made from decorticated cottonseed.	As certified, -----	2778
8.59	6.00	10.11	9.00	62.50	Made from decorticated cottonseed.	As certified, -----	3495
8.06	-----	8.92	-----	56 25			
6.63	6.00	12.02	10.00	2 50	Made from decorticated cottonseed.	Cottonseed meal and excessive amount of hulls.	2775
5.84	6.00	14.03	10.00	2 40	Made from decorticated cottonseed.	Cottonseed meal and excessive amount of hulls.	3006
6.51	6.00	12.54	8-12	2 25	Made from decorticated cottonseed.	Cottonseed meal and excessive amount of hulls.	2413
6.07	6.00	12.87	10.00	56 00	Made from decorticated cottonseed.	Cottonseed meal and excessive amount of hulls.	3357
6.15	6.00	12.54	10.00	55 00	Made from decorticated cottonseed.	Cottonseed meal and excessive amount of hulls.	3331
6 52	6.00	12.82	10.00	2 50	Made from decorticated cottonseed.	Cottonseed meal and excessive amount of hulls.	2854
7.35	6.00	11.37	10.00	58 00	Made from decorticated cottonseed.	As certified, -----	3568
6.84	6.00	12.38	10.00	2 70	Made from decorticated cottonseed.	Cottonseed meal and excessive amount of hulls.	3408
6.54	6.00	12.86	10.00	2 50	Made from decorticated cottonseed.	Cottonseed meal and excessive amount of hulls.	2675
6.87	6.00	12.98	10.00	2 50	Made from decorticated cottonseed.	Cottonseed meal and excessive amount of hulls.	2680
5.93	6-8	12.66	8-12	2 20	Made from decorticated cottonseed.	Cottonseed meal and excessive amount of hulls.	2416
6.57	-----	12.64	-----	50 91			
7.36	5.5-9	12.03	8-10	42 00	Made from pressed cottonseed.	Cottonseed meal and excessive amount of hulls.	2433
6.40	5.5-9	10.42	8-10	46 50	Made from pressed cottonseed.	Cottonseed meal and excessive amount of hulls.	2793
7.29	5.5-9	11.08	8-10	2 29	Made from pressed cottonseed.	As certified, -----	2979
7.02	-----	11.17	-----	44 77			
7.30	6.00	8.42	12.00	2 50	Made from decorticated cottonseed.	As certified, -----	2720
6.58	6.00	10.78	12.00	2 60	Made from decorticated cottonseed.	Cottonseed meal and excessive amount of hulls.	2924
6.40	6.00	9.00	12.00	-----	Made from decorticated cottonseed.	As certified, -----	2734
6.76	-----	9.40	-----	2 55			
6.97	4.00	11.09	10.00	48 00	-----	Cottonseed meal and excessive amount of hulls.	2597
6.59	6.00	11.16	10.00	2.45	Pressed from decorticated cottonseed.	Cottonseed meal and excessive amount of hulls.	2828
6.82	6.00	10.54	10.00	47 00	Pressed from decorticated cottonseed.	As certified, -----	2818
6.71	-----	10.85	-----	48 00			

TABLE IV.—ANALYSES OF SAMPLES OF

Chemists' Number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled at	Moisture.	Protein.	
				Found.	Guaranteed.
			Per ct.	Per ct.	Per ct.
2508	HAMILTON & CO., NEW CASTLE, PA. Cottonseed Meal,* -----	Bradford, L. A. Fisher & Co.	8.40	36.19	-----
3036	HUMPHRIES-GODWIN CO., MEMPHIS, TENN. Danish Brand, -----	New Castle, City Roller Mills.	7.86	37.50	36-38.5
2969	Danish Brand, -----	Coudersport, Eulalia Milling Co.	7.67	36.50	36-38.5
3322	Danish Brand, -----	Troy, Farmers & Consumers' Commercial Union.	8.42	36.19	36.00
2426	Danish Brand, -----	Johnstown, J. H. Hersberger & Son.	9.02	35.13	36-38.5
2692	Danish Brand, -----	Mt. Pleasant, F. E. Painter.	9.57	33.69	36-38.5
3557	Danish Brand, -----	Indiana, St. Clair, Rinn & Co.	8.19	34.56	36.00
2836	Danish Brand, -----	Carlisle, W. S. Stuart, ---	10.19	36.38	36-38.5
2894	Danish Brand, -----	Tarentum, R. J. Toepfer,	7.73	38.38	36-38.5
2662	Danish Brand, -----	Reading, F. S. Wertz & Son.	7.81	39.63	36-38.5
		Average, -----	8.49	36.44	-----
3253	Forfat Brand, -----	Hazleton, George W. Engle,	9.55	38.63	38.55
2583	Forfat Brand, -----	Kittanning, J. A. Gault & Co.	7.90	37.19	38.55-41
		Average, -----	8.72	37.91	-----
3029	IMPERIAL COTTO SALES CO., CHICAGO, ILL. Imperial Cotto Brand,* -----	New Castle, Fisher & Mingle,	8.62	33.81	36-38
3185	Imperial Cotto Brand,* -----	Franklin, J. H. Lavery's Sons.	7.41	37.56	38.5-41
2897	Imperial Cotto Brand,* -----	Lock Haven, E. E. Wentz,	8.35	37.88	36-38
		Average, -----	8.12	36.42	-----
3041	J. M. MACDONALD, CINCINNATI, OHIO. Kineda Prime, -----	New Castle, F. W. Hutchison & Son.	9.30	40.56	38-60
3166	Kineda Prime, -----	Oil City, New Model Milling Co.	8.78	36.38	38-60
		Average, -----	9.04	38.47	-----
2483	MERIDIAN GRAIN & ELEVATOR CO., MERIDIAN, MISS. Tip Top Choice, -----	Uniontown, J. F. Hogsett & Son.	8.22	45.00	41.00
2816	C. L. MONTGOMERY & CO., MEMPHIS, TENN. Eagle Brand High Grade, -----	Mill Hall, Continental Condensed Milk Co.	6.78	38.81	38.63-43

*Not registered.

FEEDING STUFFS COLLECTED IN 1917.—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct.	Per ct.	Per ct.	Per ct.	\$			
6.15	-----	13.19	-----	2 35	-----	Cottonseed meal and excessive amount of hulls.	2508
5.27	5-6	14.15	12-15	48 00	Made from pressed cottonseed.	Cottonseed meal and excessive amount of hulls.	3036
6.01	5-6	8.87	12-15	2 80	Made from pressed cottonseed.	As certified, -----	2969
6.81	5.00	11.86	15.00	3 00	Made from pressed cottonseed.	Cottonseed meal and excessive amount of hulls.	3322
6.60	5-6	12.77	12-15	2 50	Made from pressed cottonseed.	Cottonseed meal and excessive amount of hulls.	2426
7.70	5-6	12.71	12-15	2 55	Made from pressed cottonseed.	Cottonseed meal and excessive amount of hulls.	2692
6.95	5.00	13.78	15.00	3 00	Made from pressed cottonseed.	Cottonseed meal and excessive amount of hulls.	3557
6.06	5-6	13.24	12-15	50 00	Made from pressed cottonseed.	Cottonseed meal and excessive amount of hulls.	2836
7.54	5-6	11.45	12-15	2 50	Made from pressed cottonseed.	Cottonseed meal and excessive amount of hulls.	2894
8.58	5-6	9.22	12-15	2 70	Made from pressed cottonseed.	As certified, -----	2662
6.84	-----	12.00	-----	53 22			
6.36	5.00	10.98	12.00	3,25	Made from pressed cottonseed.	Cottonseed meal and excessive amount of hulls.	3253
6.89	6-8	12.97	8-12	2 40	Made from pressed cottonseed.	Cottonseed meal and excessive amount of hulls.	2583
6.63	-----	11.97	-----	2 83			
6.30	5-7	14.88	10-14	2.65	-----	Cottonseed meal and excessive amount of hulls.	3029
7.50	6-8	11.64	10-12	2 75	-----	Cottonseed meal and excessive amount of hulls.	3185
8.52	5-7	9.74	10-12	2 25	-----	Cottonseed meal, -----	2807
7.44	-----	12.08	-----	2 55			
6.46	6.00	11.28	12.00	2 75	-----	Cottonseed meal and excessive amount of hulls.	3041
6.67	6.00	12.36	12.00	2 50	-----	Cottonseed meal and excessive amount of hulls.	3166
6.57	-----	11.82	-----	2.63			
7.06	6.50	7.83	10.00	2 50	Decorticated cottonseed.	As certified, -----	2483
5.71	6-8	12.61	8-12	44 00	Made from pressed cottonseed.	Cottonseed meal and excessive amount of hulls.	2816

TABLE IV.—ANALYSES OF SAMPLES OF

Chemists' Number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled at	Moisture.	Protein.	
				Found.	Guaranteed.
2822	Eagle Brand High Grade, -----	Mechanicsburg, M. C. Dietz & Son.	Per ct. 8.83	Per ct. 39.13	Per ct. 38.63-43
3020	Eagle Brand High Grade, -----	Hershey, Hershey Store Co.	6.75	38.63	38.63-43
2497	Eagle Brand High Grade, -----	Scottdale, J. E. Pritts, --	9.13	37.06	38.63-43
2932	Eagle Brand High Grade, -----	DuBois, A. T. Sprankle, --	7.43	37.19	38.63-43
		Average, -----	7.78	38.16	-----
2760	Star Brand, -----	Quarryville, S. Book & Brother.	9.05	35.38	36-41
3180	Star Brand, -----	Tionesta, Lanson Brothers,	8.22	34.06	36.00
2673	Star Brand, -----	Butler, P. J. Oesterling & Son.	8.54	34.44	36-41
3080	Star Brand, -----	Bloomsburg, The White Milling Co.	7.56	31.75	36.00
		Average, -----	8.34	33.91	-----
	MULBERRY COTTON OIL MILL, MULBERRY, ARK.				
3464	Prime Grade,* -----	Altoona, Miller Brothers,	8.21	41.69	38.70
3471	Prime Grade,* -----	Frankstown, J. Herbert Rodkey.	7.94	45.81	38.70
		Average, -----	8.07	43.75	-----
	W. C. NORTHERN, LITTLE ROCK, ARK.				
3062	Butterfly, -----	Waynesburg, Waynesburg Milling Co.	7.36	38.00	38.62-41
	POE COTTONSEED PRODUCTS CO., MEMPHIS, TENN.				
3222	Golden Rod Brand Prime, -----	Altoona, Dannals Milling Co.	8.58	35.00	36.00
	RALSTON PURINA CO., INC., ST. LOUIS, MO.				
2890	Winner Prime,* -----	Canonsburg, Wm. H. Dunlap, Jr.	8.79	37.50	38.5-41
3066	Winner Prime,* -----	Washington, Russell Bros.,	9.72	34.94	38.5-41
		Average, -----	9.25	36.22	-----
	THE SOUTHERN COTTON OIL CO., DECATUR, ALA.				
2783	Cottonseed Meal, -----	Lititz, Ehner Eby, -----	6.67	38.00	36.00
	UNION SEED & FERTILIZER CO., NEW YORK, N. Y.				
3159	American Red Tag,* -----	Millerstown, A. H. Ulsh, --	8.14	36.19	38.55
	COTTONSEED FEEDS.				
		Total average, ---	8.21	37.90	-----
	M. F. BARINGER, PHILADEL- PHIA, PA.				
3136	Goodlow, -----	Muncy City Flouring Mills, Pa.	8.11	34.75	36.00
3083	Goodlow, -----	Berwick, John C. Crisman,	7.44	36.44	36.00
		Average, -----	7.77	35.60	-----

*Not registered.

FEEDING STUFFS COLLECTED IN 1917.—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct.	Per ct.	Per ct.	Per ct.	\$			
7.78	6-8	10.38	8-12	2 50		Cottonseed meal, -----	2822
6.38	6-8	11.51	8-12	51 00	Made from pressed cottonseed.	Cottonseed meal and excessive amount of hulls.	3020
6.93	6-8	11.19	8-12	2 30	Made from pressed cottonseed.	Cottonseed meal and excessive amount of hulls.	2497
5.85	6-8	13.55	8-12	2 75	Made from pressed cottonseed.	Cottonseed meal and excessive amount of hulls.	2932
6.53		11.84		49 20			
7.23	6-8	12.07	10-14	45 00	Made from pressed cottonseed.	Cottonseed meal and excessive amount of hulls.	2760
6.24	6.00	13.62	14.00	2.75	Made from pressed cottonseed.	Cottonseed meal and excessive amount of hulls.	3180
7.85	6-8	13.20	10-14	2 45	Made from pressed cottonseed.	Cottonseed meal and excessive amount of hulls.	2673
6.60	6.00	13.85	14.00	2 50	Made from pressed cottonseed.	Cottonseed meal and excessive amount of hulls.	3080
6.98		13.18		49 75			
6.57	6.00	10.15	10.00	58 00		Cottonseed meal, -----	3464
10.54	6.00	10.07	10.00	3 00		Cottonseed meal, -----	3471
8.56		10.11		59 00			
5.75	6-8	13.54	8-12	2 65	Decorticated cottonseed.	Cottonseed meal and excessive amount of hulls.	3062
6.33	5.00	13.71	14.00	2 60	Manufactured from cottonseed.	Cottonseed meal and excessive amount of hulls.	3222
7.03	6.00	11.10	12.00	46 00		Cottonseed meal and excessive amount of hulls.	2890
5.83	6.00	12.18	12.00	2 75		Cottonseed meal and excessive amount of hulls.	3066
6.43		11.64		50 50			
7.31	5.00	11.03	15.00	2 30		Cottonseed meal and excessive amount of hulls.	2783
7.41	7.00	11.33	11.50	2 75		Cottonseed meal and excessive amount of hulls.	3159
6.85		11.76		51 95			
7.37	5.00	4.48	16.00	2 40		Cottonseed meal and cottonseed hulls.	3136
6.76	5.00	11.29	15.00	2 35		Cottonseed meal and cottonseed hulls.	3083
7.07		11.38		2 38			

TABLE IV.—ANALYSES OF SAMPLES OF

Chemists' Number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled at	Moisture.	Protein.	
				Found.	Guaranteed.
3058	M. F. B., -----	Berwick, T. M. Bomboy, -	Per ct. 8.07	Per ct. 20.63	Per ct. 20.00
2996	M. F. B., -----	Centre Hall, Bradford & Son.	7.62	20.25	20.00
3117	M. F. B., -----	Milton, Buffalo Flour Mills.	10.13	20.31	20.00
3545	M. F. B., -----	West Chester, C. C. Hipple & Son.	8.80	20.00	20.00
2982	M. F. B., -----	Lewisburg, E. C. Noll, ---	9.98	21.06	20.00
		Average, -----	8.92	20.45	-----
2684	F. W. BRODE & CO., MEMPHIS, TENN. Jay Brand, -----	Greensburg, McFarland Supply Co.	8.21	32.75	36.00
2764	THE BUCKEYE COTTON OIL CO., CINCINNATI, OHIO. Buco, -----	Quarryville, Quarryville Farmers' Assn.	9.05	22.00	20.00
3364	FEEDERS' SUPPLY CO., KANSAS CITY, MO. Equity, -----	Chambersburg, Lakeview Milling Co.	9.19	20.44	20.00
2865	MERIDIAN GRAIN & ELEVATOR CO., MERIDIAN, MISS. Tip Top Good, -----	Corry, Acme Milling Co., -	8.30	38.38	36.00
3451	MONROE COUNTY COTTON OIL CO. ABERDEEN, MISS. Mississippi Monroe Brand,* -----	Gettysburg, J. W. McIlbenny.	7.69	38.44	36.00
3459	Mississippi Monroe Brand,* -----	Gettysburg, C. M. Wolf, -	7.70	36.94	36.00
		Average, -----	7.69	37.69	-----
2546	W. NEWTON SMITH, BALTIMORE, MD. Dirigo Brand Cottonseed Meal,* ----	Elizabethtown, Muth Bros.,	6.55	19.50	41-43
2789	Dirigo Brand Cottonseed Meal,* ----	Gap, Jos. C. Walker & Sons Co.	8.00	17.75	41-43
		Average, -----	7.27	18.63	-----
3232	TENNESSEE FIBRE CO., MEMPHIS, TENN. Creamo Brand, -----	Sharon, Lurie Bros., ----	10.60	21.00	20.00
3137	UNION SEED & FERTILIZER CO., NEW YORK, N. Y. Columbia, -----	Muncy, City Flouring Mills, Inc.	9.45	21.00	20.56
2800	Columbia, -----	Lock Haven, F. H. Dyer, -	9.21	17.50	20.56
3367	Columbia, -----	Williamson, J. D. Goldsmith.	8.81	20.94	20.56
3510	Columbia, -----	Manheim, Lancaster County Farmers' Assn.	7.56	22.38	20.56
3154	Columbia, -----	Millerstown, I. B. Secrist, -	8.31	20.88	20.56
		Average, -----	8.26	20.54	-----
2593	Number 7,* -----	New Kensington, A. H. Klugh.	8.87	37.31	36.00

*Not registered.

FEEDING STUFFS COLLECTED IN 1917.—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct. 3.52	Per ct. 3.00	Per ct. 25.00	Per ct. 26.00	\$ 2 35	Cottonseed meal and ground cottonseed hulls.	As certified, -----	3088
3.69	3.00	23.50	26.00	2 25	Cottonseed meal and ground cottonseed hulls.	As certified, -----	2996
3.59	3.00	23.77	26.00	2 50	Cottonseed meal and ground cottonseed hulls.	As certified, -----	3117
3.96	3.00	24.68	26.00	50 00	Cottonseed meal and ground cottonseed hulls.	As certified, -----	3545
4.49	3.00	22.31	26.00	2 30	Cottonseed meal and ground cottonseed hulls.	As certified, -----	2982
3.85	-----	23.85	-----	47 60			
5.97	5.00	14.32	14.00	2 50	Made from cottonseed.	Cottonseed meal and cottonseed hulls.	2684
3.83	3.50	21.57	27.00	36 00	Cottonseed meal and cottonseed hulls.	As certified, -----	2764
3.79	4.00	23.05	25.00	2 25	Cottonseed meal and ground cottonseed hulls.	As certified, -----	3364
6.42	5.00	12.89	15.00	2 50	Cottonseed meal and cottonseed hulls.	As certified, -----	2865
6.99	5.00	12.07	14.00	2 75	Cottonseed meal and cottonseed hulls.	As certified, -----	3451
7.06	5.00	12.02	14.00	2 75	Cottonseed meal and cottonseed hulls.	As certified, -----	3459
7.03	-----	12.04	-----	2 75			
3.70	7-9	24.51	6-10.5	2 35	Made from decorticated cottonseed.	Cottonseed meal and cottonseed hulls.	2546
3.20	7-9	26.08	6-10.5	2 30	Made from decorticated cottonseed.	Cottonseed meal and cottonseed hulls.	2789
2.45	-----	25.29	-----	2 33			
3.70	4.00	23.85	22.00	2 00	Choice cottonseed meal and cottonseed bran.	Cottonseed meal and cottonseed hulls.	3232
4.08	3.00	22.30	25.00	2 00	Cottonseed meal and cottonseed hulls.	As certified, -----	3137
3.64	3.00	24.67	25.00	2.20	Cottonseed meal and cottonseed hulls.	As certified, -----	2800
4.20	3.00	21.93	25.00	2 25	Cottonseed meal and cottonseed hulls.	As certified, -----	3367
4.03	3.00	22.79	25.00	43 00	Cottonseed meal and cottonseed hulls.	As certified, -----	3510
4.98	3.00	23.42	25.00	2 25	Cottonseed meal and cottonseed hulls.	As certified, -----	3154
4.19	-----	23.02	-----	43 40			
7.19	5.50	11.33	14.00	2 50	Cottonseed meal and cottonseed hulls.	As certified, -----	2502

TABLE IV.—ANALYSES OF SAMPLES OF

Chemists' Number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled at	Moisture.	Protein.	
				Found.	Guaranteed.
2708	Security Brand, -----	Irwin, H. Altman & Son,--	Per ct. 7.95	Per ct. 36.25	Per ct. 36.00
2823	Security Brand, -----	Mechanicsburg, M. C. Dietz & Son.	8.56	33.81	36.00
2802	Security Brand, -----	Lock Haven, F. H. Dyer,--	7.36	37.50	36.00
2896	Security Brand, -----	Tarentum, Fisher & Glenn,	8.29	36.56	36.00
3290	Security Brand, -----	Monongahela, James B. Hayard & Son.	9.44	36.07	36.00
2502	Security Brand, -----	Harrisburg, Hoffer & Gar- man.	8.08	35.38	36.00
2446	Security Brand, -----	Mifflin, W. H. Manbeck & Co.	6.88	36.56	36.00
3145	Security Brand, -----	Barnesboro, Veith Bros., --	8.96	38.50	36.00
3353	Security Brand, -----	Chambersburg, George Walker.	8.86	36.25	36.00
		Average, -----	8.26	36.32	-----
	LINSEED OIL MEAL, O. P.	Total average, -----	8.45	28.63	-----
	AMERICAN LINSEED CO., BUF- FALO, N. Y.				
3375	Pure Old Process Ground Oil Meal,--	Kane, Kane Milling & Gro- cery Co.	10.19	34.00	34.00
3589	Pure Old Process Ground Oil Meal,--	Wilkes-Barre, Miner-Hil- lard Mfg. Co.	9.56	38.31	34.00
2967	Pure Old Process Ground Oil Meal,--	Port Allegany, Port Alle- gany Milling Co.	9.85	36.06	34.00
		Average, -----	9.86	36.12	-----
	AMERICAN MILLING CO., PE- ORIA, ILL.				
2964	Amco Old Process Linseed Meal, ----	Upper Darby, V. E. Bond,	10.46	29.75	30.00
3333	Amco Old Process Linseed Meal, ----	Philadelphia, Izl. Dun- woody Co.	9.78	30.19	30.00
2937	Amco Old Process Linseed Meal, ----	Emporium, Emporium Mill- ing Co.	9.75	35.69	30.00
3468	Amco Old Process Linseed Meal, ----	Holidaysburg, Fay Mill- ing Co.	10.63	28.19	30.00
3518	Amco Old Process Linseed Meal, ----	Manheim, Lancaster County Farmers' Assn.	9.61	30.69	30.00
3450	Amco Old Process Linseed Meal, ----	Gettysburg, J. W. McIl- henny.	9.94	30.13	30.00
2441	Amco Old Process Linseed Meal, ----	McVeytown, John T. Rodgers.	9.91	30.19	30.00
3559	Amco Old Process Linseed Meal, ----	Indiana, St. Clair, Rinn & Co.	9.03	32.06	30.00
2736	Amco Old Process Linseed Meal, ----	York, Strayer Brothers Co.	9.68	30.19	30.00
2809	Amco Old Process Linseed Meal, ----	Lock Haven, E. E. Wentz,	9.37	30.06	30.00
		Average, -----	9.81	30.71	-----
	ARCHER-DANIELS LINSEED CO., BUFFALO, N. Y.				
2434	Old Process Ground Oil Cake, -----	South Fork, J. E. Cris- man.	9.62	33.94	33.00
2507	Old Process Ground Oil Cake, -----	Bradford, L. A. Fischer & Co.	9.61	34.06	33.00
2464	Old Process Ground Oil Cake, -----	Bedford, H. H. Lysinger,--	9.22	36.06	33.00

FEEDING STUFFS COLLECTED IN 1917.—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct. 10.39	Per ct. 5.50	Per ct. 11.43	Per ct. 14.00	\$ 2 40	-----	Cottonseed meal and cottonseed hulls.	2708
6.29	5.50	13.76	14.00	2 45	-----	Cottonseed meal and cottonseed hulls.	2823
7.08	5.50	10.83	14.00	2 25	-----	Cottonseed meal and cottonseed hulls.	2802
6.40	5.50	12.78	14.00	2 70	-----	Cottonseed meal and cottonseed hulls.	2806
8.44	5.50	11.53	14.00	2 80	-----	Cottonseed meal and cottonseed hulls.	3290
6.49	5.50	13.68	14.00	2 50	-----	Cottonseed meal and cottonseed hulls.	2502
6.48	5.50	11.86	14.00	2 50	-----	Cottonseed meal and cottonseed hulls.	2446
7.28	5.50	11.10	14.00	2 75	-----	Cottonseed meal and cottonseed hulls.	3145
6.30	5.50	14.89	14.00	2 85	-----	Cottonseed meal and cottonseed hulls.	3353
7.25	-----	12.43	-----	2 58	-----		
5.53	-----	17.76	-----	48 00	-----		
6.60	3.00	8.27	8.00	3 25	-----	Linseed oil meal, -----	3375
5.53	5.00	7.59	8.00	3 30	-----	Linseed oil meal, -----	3589
5.40	5.00	7.19	8.00	2 85	-----	Linseed oil meal, -----	2967
5.84	-----	7.68	-----	3 13	-----		
7.21	5.00	9.09	10.00	3 00	Old process linseed meal and old process screen- ings oil feed.	Linseed oil meal, -----	2964
7.31	5.00	9.13	10.00	56 00	-----	Linseed oil meal, -----	3333
7.60	5.00	7.60	10.00	3 00	Flaxseed product, -----	As certified, -----	2937
7.04	5.00	9.65	10.00	3 25	-----	Linseed oil meal, -----	3468
7.09	5.00	9.53	10.00	60 00	-----	Linseed oil meal, -----	3518
5.26	5.00	10.00	10.00	2 85	-----	Linseed oil meal, -----	3450
7.50	5.00	8.64	10.00	42 00	Flaxseed products, -----	Linseed oil meal and small amount of ground grain screen- ings.	2441
6.76	5.00	9.92	10.00	3 25	Flaxseed products, -----	As certified, -----	3559
6.46	5.00	9.36	10.00	2 60	Flaxseed products, -----	As certified, -----	2736
6.97	5.00	9.26	10.00	2 50	Flaxseed products, -----	Linseed oil meal and small amount of ground grain screen- ings.	
6.92	-----	9 21	-----	56 70	-----		
6.61	6.00	7.49	10.00	45 00	-----	Linseed oil meal, -----	2424
8.90	6.00	7.56	10.00	2 60	-----	Linseed oil meal, ----	2507
7.18	6.00	6.90	10.00	2 60	-----	Linseed oil meal, -----	2464

TABLE IV.—ANALYSES OF SAMPLES OF

Chemists' Number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled at	Moisture.	Protein.	
				Found.	Guaranteed.
2798	Old Process Ground Oil Cake, -----	Vintage, Paradise Farmers' Assn., Inc.	Per ct. 9.08	Per ct. 36.00	Per ct. 33.00
2604	Old Process Ground Oil Cake, -----	Norristown, W. & H. Rhoads.	9.65	37.69	33.00
	SPENCER KELLOGG & SONS, INC., BUFFALO, N. Y.	Average, -----	9.43	35.55	-----
2997	Pure Old Process Oil Meal,* -----	Centre Hall, Bradford & Son.	10.16	36.06	33.00
3082	Pure Old Process Oil Meal,* -----	Bloomsburg, The White Milling Co.	10.33	36.25	33.00
	THE MANN BROTHERS CO., BUFFALO, N. Y.	Average, -----	10.24	36.16	-----
3323	Pure Old Process Linseed Oil Meal,--	Troy, Farmers' & Consumers' Commercial Union.	9.72	33.19	34.00
3172	Pure Old Process Linseed Oil Meal,--	Oil City, New Model Milling Co.	10.22	33.50	34.00
	THE METZGER SEED AND OIL CO., TOLEDO, OHIO.	Average, -----	9.97	33.35	-----
3035	Old Process Oil Meal, -----	New Castle, City Roller Mills.	10.17	36.81	30.00
3583	Old Process Oil Meal, -----	Evans City, Gelbach & Behm.	9.24	33.75	33.00
2590	Old Process Oil Meal, -----	New Kensington, J. A. Hawk.	9.82	33.88	30.00
3567	Old Process Oil Meal, -----	Zelienople, J. J. Kennedy,	9.48	36.56	33.00
	MIDLAND LINSEED PRODUCTS CO., NEW YORK, N. Y.	Average, -----	9.67	35.25	-----
3011	Old Process Ground Linseed Cake,----	Palmyra, Early & Detweiler.	9.82	34.94	32.00
3581	Old Process Ground Linseed Cake,----	Evans City, Geo. Ifft & Sons.	9.36	36.94	32.00
3182	Old Process Ground Linseed Cake,----	Tionesta, Lanson Bros.,	10.06	34.38	32.00
	THE SHERWIN-WILLIAMS CO., CLEVELAND, OHIO.	Average, -----	9.74	35.42	-----
3284	Linseed Oil Meal, -----	Hickory, J. M. Caldwell,--	10.31	34.69	33.00
3181	Linseed Oil Meal, -----	Tionesta, Lanson Bros., --	9.80	35.94	33-36
	THOMPSON & CO., PITTSBURGH, PA.	Average, -----	10.05	35.32	-----
2824	Oil Meal as Stock Food, -----	Mechanicsburg, M. C. Dietz & Son.	9.25	35.50	30-37.5
3443	Oil Meal as Stock Food, -----	Hays, John Lachman & Co.	10.14	33.75	30.00
3522	Oil Meal as Stock Food, -----	Blairsville, J. A. McKelvey.	10.06	32.94	30.00
2693	Oil Meal as Stock Food, -----	Mt. Pleasant, F. E. Painter.	9.44	25.38	30.00
3203	Oil Meal as Stock Food, -----	Pottsville, Speacht Bros.,	9.90	35.00	30-37.5
3074	Oil Meal as Stock Food, -----	Washington, Washington Milling Co.	10.15	34.38	30.00
	THE TOLEDO SEED & OIL CO., TOLEDO, OHIO.	Average, -----	9.82	34.49	-----
3251	Major Old Process Oil Meal, -----	Hazleton, Geo. H. Engle,	11.52	32.88	30.00
2484	Major Old Process Oil Meal, -----	Uniontown, J. F. Hogsett & Son.	9.58	34.88	30.00
		Average, -----	10.55	33.88	-----
		Total average, ----	9.83	33.97	-----

FEEDING STUFFS COLLECTED IN 1917.—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct. 8.03	Per ct. 6.00	Per ct. 7.48	Per ct. 10.00	\$ 2 85	-----	Linseed oil meal, -----	2798
7.33	6.00	7.05	10.00	2 65	-----	Linseed oil meal, -----	2604
7.61	-----	7 28	-----	51 80	-----	-----	-----
5.40	5.00	7.56	10.00	2 50	Made from linseed cake.	As certified, -----	2997
6.38	5.00	7.54	10.00	2 65	-----	Linseed oil meal, -----	3082
5.89	-----	7.55	-----	2 58	-----	-----	-----
7.64	6.00	7.83	10.00	3.00	-----	Linseed oil meal, -----	3323
7.24	6.00	7.84	10.00	2.75	-----	Linseed oil meal, -----	3172
7.44	-----	7.83	-----	2 88	-----	-----	-----
6.49	5.00	8.33	10.00	60 00	-----	Linseed oil meal, -----	3035
7.18	5.00	8.07	10.00	3 00	-----	Linseed oil meal, -----	3583
6.45	5.00	8.54	10.00	3 00	-----	Linseed oil meal, -----	2590
7.00	5.00	7.72	10.00	58 00	-----	Linseed oil meal, -----	3567
6.78	-----	8.16	-----	59.50	-----	-----	-----
9.11	8.00	7.65	9.50	2 60	-----	Linseed oil meal, -----	3011
7.88	5.00	6.85	9.00	3 00	-----	Linseed oil meal, -----	3581
6.69	5.00	7.91	9.50	3.00	-----	Linseed oil meal, -----	3182
7.89	-----	7.47	-----	2 87	-----	-----	-----
6.91	6.00	7.31	8 00	2 85	-----	Linseed oil meal, -----	3284
6.61	6-7	7.59	8.00	3 00	-----	Linseed oil meal, -----	3181
6.76	-----	7.45	-----	2 93	-----	-----	-----
8.85	5.5-8.5	7.27	6-11	2 65	-----	Linseed oil meal, -----	2824
6.89	5.50	7.91	11.00	65 00	-----	Linseed oil meal, -----	3443
6.91	5.50	7.79	11.00	3 25	-----	Linseed oil meal, -----	3522
8.69	5.50	7.21	11.00	3 00	-----	Linseed oil meal, -----	2693
8.72	5.5-8.5	7.31	6.11	3 00	-----	Linseed oil meal, -----	3203
8.43	5.50	7.62	11.00	2 70	-----	Linseed oil meal, -----	3074
8.08	-----	7.51	-----	59 50	-----	-----	-----
6.30	5.00	7.68	10.00	3 25	-----	Linseed oil meal, -----	3251
6.16	5.00	8.03	10.00	2 75	-----	Linseed oil meal, -----	2484
6.23	-----	7.85	-----	3 00	-----	-----	-----
7.16	-----	8.03	-----	57.33	-----	-----	-----

TABLE IV.—ANALYSES OF SAMPLES OF

Chemists' Number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled at	Moisture.	Protein.	
				Found.	Guaranteed.
COCOANUT OIL MEAL.					
3337	SPENCER KELLOGG & SONS, INC., BUFFALO, N. Y. Kellogg's Pure Old Process,* -----	Philadelphia, Ezl. Dunwoody Co.	Per ct. 8.25	Per ct. 20.38	Per ct. 20.00
	DISTILLERY & BREWERY BY-PRODUCTS.				
	DISTILLERS' DRIED GRAINS. (Largely from Corn.)				
	AJAX MILLING & FEED CO., NEW YORK, N. Y.				
2525	Ajax Flakes, -----	Smethport, F. A. Green, ---	5.66	34.38	30.00
2427	Ajax Flakes, -----	Johans town, J. H. Hersherberger & Son.	7.66	31.75	30.00
2668	Ajax Flakes, -----	Butler, Thompson & Glenn.	4.01	30.88	30.00
		Average, -----	5.77	32.34	-----
AMERICAN MILLING COMPANY, PEORIA, ILL.					
2963	Empire State Dairy Feed, -----	Upper Darby, V. E. Bond,	6.29	34.06	30.00
3534	Empire State Dairy Feed, -----	Paoli, Edward F. Braeken,	5.31	29.75	30.00
2825	Empire State Dairy Feed, -----	Mechanicsburg, M. C. Dietz & Son.	3.61	34.31	30.00
3338	Empire State Dairy Feed, -----	Philadelphia, Ezl. Dunwoody Co.	6.52	30.63	30.00
2786	Empire State Dairy Feed, -----	Lititz, Elmer Eby, -----	4.80	32.25	30.00
2974	Empire State Dairy Feed, -----	Condersport, Fulalia Milling Co.	8.40	36.38	30.00
2797	Empire State Dairy Feed, -----	Vintage, Paradise Farmers' Assn., Inc.	8.31	32.44	30.00
2832	Empire State Dairy Feed, -----	Carlisle, W. S. Stuart, ---	10.04	37.75	30.00
2659	Empire State Dairy Feed, -----	Reading, F. S. Wertz & Son.	5.50	28.88	30.00
		Average, -----	6.53	32.94	-----
CONTINENTAL CEREAL CO., PEORIA, ILL.					
3252	Continental Gluten Feed, ---	Hazleton, Geo. W. Engle,	6.25	35.69	29-34
THE DEWEY BROTHERS CO., BLANCHESTER, OHIO.					
2667	Eagle 3 D Grains, -----	Butler, Thompson & Glenn.	4.24	30.38	30.00
JONAS F. EBY & SON, LANCASTER, PA.					
2826	Buttermore Choice, -----	Mechanicsburg, A. B. Har-nish.	7.10	32.69	30.00
2534	Buttermore Choice, -----	Annville, Newgard & Baeh-man.	7.50	29.88	30.00
2723	Buttermore Choice, -----	York, H. H. Smyser, ----	6.48	31.13	30.00
		Average, -----	7.08	31.23	-----
THE HOTTELET CO., MILWAUKEE, WIS.					
3355	Hector, -----	Chambersburg, Diehl, Omwake & Diehl.	5.46	30.88	30.00
KENTUCKY DISTILLERS' & BREWERS' DRIED GRAINS CO., LOUISVILLE, KY.					
2500	Distillers' Dried Grains,* -----	Pottstown, A. K. Kulp, --	6.26	31.25	32.00

*Not registered.

FEEDING STUFFS COLLECTED IN 1917.—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct.	Per ct.	Per ct.	Per ct.	\$			
9.14	6.00	7.63	11.00	46 00	Made from copra cake,--	Cocoanut oil meal, ----	3337
10.99	10.00	12.74	14.00	2 20	Corn distillers' grains,--	As certified, -----	2525
9.65	10.00	12.20	14.00	1 75	Corn distillers' grains,--	As certified, -----	2427
12.17	10.00	12.15	14.00	48 00	Corn distillers' grains,--	As certified, -----	2668
10.94	-----	12.36	-----	42.33			
8.71	10-12	12.63	14.00	2 50	Corn distillers' dried grains.	As certified, -----	2963
12.38	10.00	12.53	14.00	64 00	Corn distillers' dried grains.	As certified, -----	3534
11.80	10-12	11.58	14.00	2 30	Corn distillers' dried grains.	As certified, -----	2825
12.10	10.00	11.27	14.00	59 00	Corn distillers' dried grains.	As certified, -----	3338
12.74	10-12	11.79	14.00	2 50	Corn distillers' dried grains.	As certified, -----	2786
11.33	10.00	11.48	14.00	2 90	Corn distillers' dried grains.	As certified, -----	2974
12.14	10-12	11.20	14.00	2 50	Corn distillers' dried grains.	As certified, -----	2797
6.76	10-12	11.98	14.00	45 00	Corn distillers' dried grains.	As certified, -----	2832
11.99	12.00	12.34	14.00	2 45	-----	Distillers' dried grains largely from corn.	2659
11.11	-----	11.86	-----	52 33			
12.58	10-15	11.03	7-10	3 25	A distillery by-product manufactured from corn, oats, rye and barley.	As certified, -----	3252
12.74	10.00	8.37	13.00	48 00	Distillers' dried grains made principally from corn.	As certified, -----	2667
9.94	10.00	11.40	14.00	2 30	-----	Distillers' dried grains largely from corn.	2826
8.79	10.00	12.19	14.00	40 00	-----	Distillers' dried grains largely from corn.	2534
8.92	10.00	10.49	14.00	46 00	Choice corn distillers' dried grains.	As certified, -----	2723
9.22	-----	11.36	-----	44 00			
10.46	10.00	10.83	14.00	58 00	-----	Distillers' dried grains largely from corn.	3355
11.82	13.04	11.76	11.78	2 25	Made from corn, barley, malt and rye.	As certified, -----	2900

TABLE IV.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled at	Moisture.	Protein.	
				Found.	Guaranteed.
	THE LARROWE MILLING CO., DETROIT, MICH.		Per ct.	Per ct.	Per ct.
2801	Brownie Grains, -----	Lock Haven, F. H. Dyer,--	7.94	28.50	26.00
	DISTILLERS' DRIED GRAINS. (Largely from Rye.)	Total average, ----	6.36	32.19	-----
2551	STEWART DISTILLING CO., HIGHLANDTOWN, MD. Distillers' Rye Grains, -----	Elizabethtown, Lehman & Wolgemuth.	6.29	16.38	16.32
	DISTILLERS' AND YEAST DRIED GRAINS.				
3118	THE CORBY COMPANY, WASHINGTON, D. C. Corby Dried Grains, -----	Milton, Buffalo Flour Mills.	7.23	19.81	16.00
3085	THE FLEISCHMANN CO., PEEKSKILL, N. Y. Fleischmann's Dried Grains, -----	Berwick, T. M. Bomboy, --	6.40	21.38	20.00
2993	Fleischmann's Dried Grains, -----	Centre Hall, Bradford & Son.	5.97	25.69	20.00
3026	Fleischmann's Dried Grains, -----	Hershey, Hershey Store Company.	7.20	22.06	20.00
2655	Fleischmann's Dried Grains, -----	Phoenixville, W. H. Lenhard.	4.74	21.44	20.00
2980	Fleischmann's Dried Grains, -----	Goldsboro, The Goldsboro Pure Feed Co.	6.80	19.33	19.00
2957	Fleischmann's Dried Grains, -----	Llanerch, S. H. Moore, ---	7.06	19.63	19.00
		Average, -----	6.36	21.60	-----
		Total average, ----	6.48	21.34	-----
	BREWERS' DRIED GRAINS.				
3135	ANNHEUSER-BUSCH BREWING ASSOCIATION, ST. LOUIS, MO. Steam Dried,* -----	Muncy, City Flouring Mills, Inc.	8.84	24.00	22-28
2462	M. F. BARINGER, PHILADELPHIA, PA. M. F. B., -----	Bedford, Davidson Bros.,--	5.61	28.50	25.00
2466	M. F. B., -----	Bedford, John M. Prosser,	7.03	25.06	25.00
		Average, -----	6.32	26.78	-----
3081	BURKHARDT BREWING CO., ROXBURY STATION, MASS. Dried Grains,* -----	Bloomsburg, The White Milling Co.	7.75	25.00	25.00
3585	FARMERS' FEED CO., NEW YORK, N. Y. Bull Brand, -----	Harmony, Harmony Cereal Mills.	6.41	29.44	27.2-30
3566	Bull Brand, -----	Zellenople, J. J. Kennedy,--	6.28	26.13	27.2-30
2947	Bull Brand, -----	Newton Square, J. C. Rhodes Estate.	5.32	28.88	27.2-30
		Average, -----	6.00	28.15	-----

*Not registered.

FEEDING STUFFS COLLECTED IN 1917.—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemists' number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct. 12.21	Per ct. 7.00	Per ct. 7.12	Per ct. 9.00	\$ 2 00	Made principally from corn.	As certified, -----	2801
11.01	-----	11.85	-----	49 30			
9.15	6.84	12.62	18.00	1 60	-----	Distillers' dried grains largely from rye.	2551
6.95	5.00	16.54	22.00	2 25	From the manufacture of compressed yeast, barley malt, rye malt, malt sprouts and corn.	As certified, -----	3118
6.78	7.00	16.46	19.00	3 00	Dried distillers' and yeast grains from corn, rye, barley malt and sprouts.	As certified, -----	3085
6.60	7.00	16.95	19.00	44 00	Dried distillers' and yeast grains from corn, rye, barley malt and sprouts.	As certified, -----	2993
7.08	7.00	16.08	19.00	45 00	Dried distillers' and yeast grains from corn, rye, barley malt and sprouts.	As certified, -----	3026
7.84	7.00	16 29	19.00	2 00	Dried distillers' and yeast grains from corn, rye, barley malt and sprouts.	As certified, -----	2655
7.14	7.00	18.27	19.00	45 00	Dried yeast grains from corn, barley malt and sprouts.	As certified, -----	2980
7.13	7.00	17.41	19.00	2 20	Dried yeast grains from corn, barley malt and sprouts.	Distillers' and yeast dired grains with trace whole weed seeds.	2957
7.10	-----	16.91	-----	46 33			
7.07	-----	16.85	-----	46 14			
7.51	6-8	15.81	15-18	2 50	-----	Brewers' dried grains, --	3135
8.21	6.00	14.58	15.00	1 90	-----	Brewers' dried grains, --	2462
7.40	6.00	14.65	15.00	1 90	-----	Brewers' dried grains, --	2466
7.81	-----	14.61	-----	1 90			
6.88	5.00	13.31	15.00	2.45	-----	Brewers' dried grains, --	3081
7.30	6.3-8	13.62	12.85- 15.2	2 85	-----	Brewers' dried grains, --	3585
6.56	6.3-8	15.36	12.85- 15.2	55 00	-----	Brewers' dried grains, --	3566
7.24	6.3-8	13.62	12.85- 15.2	2 50	-----	Brewers' dried grains, --	2947
7.03	-----	14.20	-----	54 00			

TABLE IV.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled at	Moisture.	Protein.	
				Found.	Guaranteed.
	THE HOTTELET CO., MILWAU- KEE, WIS.		Per ct.	Per ct.	Per ct.
3544	Holsteien, -----	West Chester, C. C. Hipple & Son.	5.67	24.38	25.00
2596	Holstein, -----	Norristown, Simpson Brothers.	7.00	23.88	25.00
		Average, -----	6.33	24.13	-----
	INDEPENDENT BREWING CO. OF PITTSBURGH, CARNEGIE, PA.				
2880	Dried Brewers' Grains, -----	Carnegie, Richey & McFar- land.	6.06	29.44	27.07
	JOHNSTOWN DRY GRAINS CO., JOHNSTOWN, PA.				
2425	Dried Brewers' Grains, -----	Johnstown, G. Bostert & Sons.	7.84	25.13	24.00
	KELLOGG TOASTED CORN FLAKE CO., BATTLE CREEK, MICH.				
2868	Dried Brewers' Grains, -----	Braddock, Braddock Feed & Supply House.	5.79	35.79	25.11
	J. C. KLANDER EST., PHILAD- DELPHIA, PA.				
3535	Dried Brewers' Grains, -----	Paoli, Edward F. Bracken,	7.17	26.00	26.00
	PENN GRAINS & FEED CO., PHILADELPHIA, PA.				
2654	Peerless Brand, -----	Phoenixville, W. H. Len- hard.	7.14	25.44	26.00
2656	Peerless Brand, -----	Reading, F. S. Wertz & Son.	7.28	24.63	26.00
		Average, -----	7.21	25.04	-----
	STEGMAIER BREWING CO., WILKES-BARRE, PA.				
3606	Dried Brewers' Grains, -----	Wilkes-Barre, Robbins Mill- ing Co.	7.51	32.13	25.10
	C. W. WAGAR & CO., PHILADEL- PHIA, PA.				
2605	Wagar's Dried Grains, -----	Norristown, W. & H. Rhoads.	5.69	19.19	23.00
	MALT SPROUTS.	Total average, -----	6.72	26.65	-----
	FRANCIS DUHNE MILLING CO., MILWAUKEE, WIS.				
2658	Malt Sprouts, -----	Reading, F. S. Wertz & Son.	8.56	24.88	25.00
	WESTERN GRAIN & FEED CO., CHICAGO, ILL.				
3139	Malt Sprouts, -----	Muncy, City Flouring Mills.	9.21	26.06	24.00
		Total average, -----	8.88	25.47	-----
	MAIZE BY-PRODUCTS.				
	CORN GLUTEN FEED.				
	AMERICAN MAIZE PRODUCTS CO., NEW YORK, N. Y.				
3278	Cream of Corn, -----	Allentown, Geo. B. Shelly Estate.	9.02	25.38	23.00
	CORN PRODUCTS REFINING CO., NEW YORK, N. Y.				
2905	Buffalo, -----	Pottstown, S. Clouse & Company.	9.53	21.88	23.00
2817	Buffalo, -----	Mill Hall, Continental Con- densed Milk Co.	9.30	26.13	23.00
2940	Buffalo, -----	Emporium, Emporium Mill- ing Co.	9.32	27.88	23.00
3254	Buffalo, -----	Hazleton, Geo. W. Engle,	10.13	29.63	23.00

FEEDING STUFFS COLLECTED IN 1917.—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemists' number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct.	Per ct.	Per ct.	Per ct.	\$			
8.50	5.00	15.90	14.00	69 00	-----	Brewers' dried grains, --	3544
8.70	5.00	14.25	14.00	41.00	-----	Brewers' dried grains, --	2596
8.60	-----	15.07	-----	50 50	-----		
6.99	6.41	13.28	14.43	24 00	-----	Brewers' dried grains, --	2880
7.12	6.71	14.32	15.00	2 10	-----	Brewers' dried grains, --	2425
6.16	5.07	11.01	12.75	36 00	-----	Brewers' dried grains, --	2863
8.23	6.00	14.15	15.00	60 00	-----	Brewers' dried grains, --	3535
7.11	6.00	14.41	12.00	2 20	-----	Brewers' dried grains, --	2654
6.62	6.00	14.78	12 00	2.20	-----	Brewers' dried grains, --	2656
6.87	-----	14.59	-----	2.20	-----		
7.62	6.42	12.58	14.91	2.75	-----	Brewers' dried grains, --	3606
6.83	9.00	16.56	15.00	2 00	Made from barley malt and corn.	Brewers' dried grains, --	2605
7.35	-----	14.24	-----	46 06	-----		
1.64	1.50	13.09	14.00	1 95	-----	Malt sprouts and small amount whole weed seeds.	2658
2.46	1.50	11.36	16.50	2 25	Offal from barley malt, --	Malt sprouts and small amount whole weed seeds.	3129
2.05	-----	12.22	-----	2 10	-----		
2.07	1.50	6.87	8.00	3 00	-----	Corn gluten feed, -----	3278
2.90	1.00	5.32	8.50	2 10	-----	Corn gluten feed, -----	2905
1.69	1.00	7.82	8.50	1 60	Corn gluten feed, -----	As certified, -----	2817
2.47	1.00	7.31	8 50	2 95	Corn gluten feed, -----	As certified, -----	2940
1.67	1.00	7.21	8.50	3 25	Corn gluten feed. -----	As certified, -----	3254

TABLE IV.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled at	Moisture.	Protein.	
				Found.	Guaranteed.
3021	Buffalo, -----	Hershey, Hershey Store Company.	Per ct. 9.66	Per ct. 27.56	Per ct. 23.00
2519	Buffalo, -----	Smethport, Herzog Milling Co.	9.89	26.75	23.00
3540	Buffalo, -----	West Chester, C. C. Hipple & Son.	9.55	26.75	23.00
3362	Buffalo, -----	Chambersburg, Lakeview Milling Co.	7.76	30.75	23.00
2795	Buffalo, -----	Vintage, Paradise Farmers' Assn.	7.99	26.31	23.00
2948	Buffalo, -----	Newton Square, J. C. Rhodes Estate.	8.84	26.88	23.00
2442	Buffalo, -----	McVeytown, John T. Rodgers.	8.23	27.88	23.00
3318	Buffalo, -----	Troy, H. M. Spalding & Son.	9.81	27.19	23-25
2735	Buffalo, -----	York, Strayer Brothers & Co.	10.17	24.31	23.00
3146	Buffalo, -----	Barnesboro, Veith Bros.,	9.92	26.63	23.00
2666	Buffalo, -----	Reading, F. S. Wertz & Son.	9.34	24.06	23.00
Average, -----			9.29	26.67	-----
2970	Globe, -----	Coudersport, Eulalia Milling Co.	10.93	26.88	23.00
DOUGLAS COMPANY, CEDAR RAPIDS, IOWA.					
2543	Douglas, -----	Swatara, J. B. Curry Estate.	9.70	26.06	23-25
2509	Douglas, -----	Bradford, L. A. Fischer & Co.	12.59	25.56	23.00
2582	Douglas, -----	Kittanning, J. A. Gault & Co.	9.66	24.81	23.00
2685	Douglas, -----	Greensburg, McFarland Supply Co.	9.98	23.31	23.00
3590	Douglas, -----	Wilkes-Barre, Miner-Hillard Milling Co.	9.18	26.50	23.00
2514	Douglas, -----	Bradford, Smith Brothers,	10.01	25.69	23.00
Average, -----			10.18	25.32	-----
J. O. HUBINGER BROS. CO., KEOKUK, IOWA.					
2791	K. K. K., -----	Gap, Jos. C. Walker & Sons Co.	8.35	23.44	23.00
HURON MILLING CO., HARBOR BEACH, MICH.					
2602	Jenks', -----	Norristown, Simpson Brothers.	7.91	23.94	22-25
MAUSER MILL COMPANY, TREICHLERS, PA.					
3214	Gluten Feed,* -----	Tamaqua, C. W. Royer,	8.69	22.81	-----
PIEL BROTHERS STARCH CO., INDIANAPOLIS, IND.					
3410	P. Bro., -----	Brookville, Kline's Sifter Mills.	9.25	27.75	23.00
A. E. STALEY MFG. CO., DECATUR, ILL.					
2887	Staley's, -----	Canonsburg, Canonsburg Milling Co.	9.75	24.31	23.00
3047	Staley's, -----	Elwood City, W. W. Davidson & Son.	8.82	25.44	23-25
2904	Staley's, -----	Pottstown, A. K. Kulp,	9.62	23.63	-----
Average, -----			9.39	24.46	-----
UNION STARCH & REFINING CO., EDINBURG, IND.					
3068	Union, -----	Washington, Russell Brothers.	10.74	25.13	24.00

*Not registered.

FEEDING STUFFS COLLECTED IN 1917.—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemists' number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct.	Per ct.	Per ct.	Per ct.	\$			
2.30	1.00	7.79	8.50	51 00	Corn gluten feed, -----	As certified, -----	3021
2.65	1.00	6.83	8.50	2 20	Corn gluten feed, -----	As certified, -----	2519
1.90	1.00	7.60	8.50	58 00	Corn gluten feed, -----	As certified, -----	3540
1.44	1.00	5.88	8.50	2.50	Corn gluten feed, -----	As certified, -----	3362
3.69	1.00	7.26	8.50	2.30	-----	Corn gluten feed, -----	2795
1.43	2.00	7.42	8.50	2 50	A product obtained in the manufacture of corn starch with bran.	Corn gluten feed, -----	2948
2.45	1.00	6.82	8.50	-----	Corn gluten feed, -----	As certified, -----	2442
1.24	2.50	7.27	-----	50 00	-----	Corn gluten feed, -----	3318
3.15	1.00	8.24	8.50	2 30	Corn gluten feed, -----	As certified, -----	2735
2.16	1.00	8.05	8.50	2 65	Corn gluten feed, -----	As certified, -----	3146
2.39	1.00	8.05	8.50	2 10	Corn gluten feed, -----	As certified, -----	2666
2.24	-----	7.25	-----	49 14	-----	-----	-----
2.25	1.00	6.37	8.50	2 80	Corn gluten feed, -----	As certified, -----	2970
1.95	1.00	6.33	8.00	2 00	-----	Corn gluten feed, -----	2543
1.98	1.00	6.22	8.00	42 00	-----	Corn gluten feed, -----	2509
2.07	1.00	7.16	8.00	1 35	-----	Corn gluten feed, -----	2582
2.61	1.00	6.24	8.00	2 30	-----	Corn gluten feed, -----	2685
2.10	1.00	7.01	8.00	3 10	-----	Corn gluten feed, -----	3590
1.65	1.00	5.74	8.00	2 25	-----	Corn gluten feed, -----	2514
2.06	-----	6.45	-----	43 67	-----	-----	-----
4.47	2.40	7.02	7.50	2 20	Corn starch by-product with corn solubles.	As certified, -----	2791
2.89	3.00	7.00	8.00	42 00	-----	Corn gluten feed, -----	2602
2.97	-----	5.66	-----	2 75	-----	Corn gluten feed, -----	3214
1.83	2.00	6.51	8.00	2 75	-----	Corn gluten feed, -----	3410
3.04	2.50	6.77	9.00	40 00	-----	Corn gluten feed, -----	2887
2.86	2-3	6.44	9-12	2 75	-----	Corn gluten feed, -----	3047
2.64	-----	5.82	-----	2 10	-----	Corn gluten feed, -----	2904
2.85	-----	6.34	-----	45 67	-----	-----	-----
2.01	3.00	6.71	6.30	2 75	Corn gluten feed, -----	As certified, -----	3068

TABLE IV.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled at	Moisture.	Protein.	
				Found.	Guaranteed.
2603	C. W. WAGAR & CO., PHILADELPHIA, PA. Gluten Feed, -----	Norristown, Simpson Brothers.	7.27	24.31	22.00
	CORN GLUTEN MEAL.	Total average, -----	9.40	25.78	-----
3031	CORN PRODUCTS REFINING CO., NEW YORK, N. Y. Diamond, -----	New Castle, Fisher & Mengle.	10.28	45.56	40.00
	HOMINY FEED.				
2510	AMERICAN HOMINY CO., INDIANAPOLIS, IND. Homeo, -----	Bradford, L. A. Fischer & Co.	9.31	11.50	10.00
2743	BALTIMORE PEARL HOMINY CO., BALTIMORE, MD. Spring Garden, -----	York, Anderson Bros. & Company.	9.71	10.81	10.00
3332	EZL. DUNWOODY CO., PHILADELPHIA, PA. White, -----	Philadelphia, Ezl. Dunwoody Co.	7.69	12.19	8-10
2445	EVANS MILLING CO., INDIANAPOLIS, IND. Emco Evans, -----	McVeytown, John T. Rodgers.	8.91	11.25	10.00
2541	CHAS. A. KRAUSE MILLING CO., MILWAUKEE, WIS. Badger, -----	Swatara, J. B. Curry Estate.	9.56	12.13	10.00
3005	Badger, -----	Palmyra, John B. Curry's Sons.	10.41	12.56	10.00
3516	Badger, -----	Manheim, Lancaster County Farmers' Association.	9.01	12.19	10.00
2730	Badger, -----	York, Strayer Brothers Co.	9.58	11.94	10.00
		Average, -----	9.64	12.21	-----
3601	MINER-HILLARD MILLING CO., WILKES-BARRE, PA. Choice Steam Cooked, -----	Wilkes-Barre, Miner-Hillard Milling Co.	10.95	10.44	10-12
2700	PLYMOUTH MILLING CO., LE-MARS, IOWA. Plymouth's Pure,* -----	Latrobe, Latrobe Feed Supply Co.	9.92	10.44	10.00
	QUAKER OATS CO., CHICAGO, ILL.				
3281	Yellow,* -----	Hickory, J. M. Caldwell,	11.30	11.13	-----
2486	Yellow,* -----	New Salem, Mike Duyava,	11.33	11.06	9.00
3563	Yellow,* -----	Indiana, Hetrick-Wilson & Co.	8.85	11.69	9.00
3176	Yellow,* -----	Oil City, Magee Feed Company.	10.86	11.00	9.00
3401	Yellow,* -----	Clarion, A. C. Snyder & Son.	10.56	12.00	9.00
		Average, -----	10.58	11.38	-----
2620	SUFFERN-HUNT MILLS, DECATUR, ILL. Acme Brand, -----	Florin, J. N. Hershey, ---	9.29	11.63	9.50
2790	Acme Brand, -----	Gap, Jos. C. Walker & Sons Co.	10.27	12.00	9.50
		Average, -----	9.78	11.82	-----

*Not registered.

FEEDING STUFFS COLLECTED IN 1917.—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemists' number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct.	Per ct.	Per ct.	Per ct.	\$			
2.69	3.00	6.13	8.00	42 00		Corn gluten feed, -----	2603
2.36		6.83		48 26			
0.86	1.50	1.39	4.00	2 35		Corn gluten meal, -----	3031
8.68	7.00	5.12	7.00	44 00	White corn only, -----	As certified, -----	2510
6.93	7.00	4.39	5.00	2 25	Made from corn, -----	As certified, -----	2743
7.65	6-8	4.38	8-10	62 00		Hominy feed, -----	3332
7.94	7.50	5.42	7.00	40 00	From white corn, -----	As certified, -----	2445
6.88	6.00	4.91	5.00	2 15	Made from white corn,--	As certified, -----	2541
6.99	6.00	4.39	5.00	3 20	Made from white corn,--	As certified, -----	3005
6.28	6.00	5.68	5.00	60 00	Made from white corn,--	As certified, -----	3516
7.89	6.00	4.54	5.00	2 50	Made from white corn,--	As certified, -----	2730
7.01		4.83		54 25			
5.35	5-8	3.32	3-5	3 40		Hominy feed, -----	3601
6.87	8.50	4.09	6.35	2 40		Hominy feed, -----	2700
6.48		4.71		3 30		Hominy feed, -----	3281
5.62	4.00	2.22	4.00	2 15	Yellow hominy feed, ----	As certified, -----	2486
7.35	4.00	4.67	4.00	4 00	Yellow hominy feed, ----	As certified, -----	3563
8.35	4.00	4.56	4.00	3 60	Yellow hominy feed, ----	As certified, -----	3176
5.14	4.00	3.60	4.00	4 00	Yellow hominy feed, ----	As certified, -----	3401
6.59		3.95		3 41			
7.76	7.00	4.65	7.00	41 00	Compounded from white corn, guaranteed pure and unadulterated.	As certified, -----	2620
7.16	7.00	4.52	7.00	2 30	Compounded from white corn, guaranteed pure and unadulterated.	As certified, -----	2790
7.46		4.58		43 50			

TABLE IV.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled at	Moisture.	Protein.	
				Found.	Guaranteed.
2555	U. S. FRUMENTUM CO., DETROIT, MICH. Frumentum,* -----	Elizabethtown, Lehman & Wolgemuth.	Per ct. 8.07	Per ct. 11.88	Per ct. 9.5-10.5
	CORN BRAN.	Total average, -----	9.75	11.55	-----
3388	THE KEMPER-FAIR MILLING CO., TONGANOXIE, KANS. Pure Corn Bran,* -----	Philadelphia, Charles H. Longcope.	9.37	11.06	6.00
	CORN FEED MEAL.				
3102	ACME MILLING COMPANY, OLEAN, N. Y. Yellow, -----	Ridgway, Smith Brothers Co.	12.04	10.19	8.80
2568	FAIRPLAY FEED MILLS, LINTON, IND. Feed Meal, -----	Morrisdale, Morrisdale Feed and Grain Co., Inc.	13.31	8.94	-----
3141	THE TOLEDO GRAIN & MILLING CO., TOLEDO, OHIO. Camp's, -----	Spangler, E. F. Dunn, -----	12.41	9.25	7.50
3111	Camp's, -----	St. Marys, Hall-Kaul & Hyde Co.	13.20	9.19	7.5-9
		Average, -----	12.80	9.22	-----
		Total average, -----	12.74	9.39	-----
	WHEAT OFFALS.				
	LOW GRADE FLOUR.				
2585	GEORGE C. CHRISTIAN, MINNEAPOLIS, MINN. Pure Wheat Red Dog, -----	Kittanning, J. A. Gault Co.	10.28	16.69	16.00
3447	MARSHALL MILLING CO., MARSHALL, MINN. Red Dog, -----	Gettysburg, J. W. McIlhenny.	10.77	19.13	17.00
2927	MAYFLOWER MILLS, FORT WAYNE, IND. Mayflower Red Dog, -----	Reynoldsville, Fales Grocery Co.	9.83	14.44	10.00
3607	Mayflower Red Dog, -----	Wilkes-Barre, Robbins Milling Co.	10.19	16.06	10.00
		Average, -----	10.01	15.25	-----
2877	STAR AND CRESCENT MILLING CO., CHICAGO, ILL. Pure Wheat Red Dog, -----	Wilkinsburg, Johnston & Smith.	10.32	15.94	16.50
		Total average, -----	10.27	16.45	-----
	WHEAT MIDDINGS.				
2565	ACME-EVANS CO., INDIANAPOLIS, IND. Flour Middlings, -----	Morrisdale, Morrisdale Feed and Grain Co., Inc.	11.71	15.31	-----
2895	E. I. BAILEY, CLEVELAND, OHIO. Wheat Middlings,* -----	Tarentum, R. J. Toepfer,	10.06	15.00	-----

*Not registered.

FEEDING STUFFS COLLECTED IN 1917.—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemists' number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct.	Per ct.	Per ct.	Per ct.	\$			
6.90	7.3-8.3	4.32	7-6	2 10	-----	Hominy feed, -----	2555
7.01	-----	4.41	-----	55 22			
7.68	3.50	6.29	16.00	2 60	-----	Corn bran, -----	3388
3.18	3.50	1.66	3.00	4 00	Made from yellow corn ground and siftings from cracked corn.	As certified, -----	3102
3.57	-----	1.80	-----	2 20	-----	Corn feed meal, -----	2568
3.32	3.50	3.49	6.00	3 60	Made from corn and corn siftings.	As certified, -----	3141
3.69	3.5-4.5	2.43	6-8	3 50	Made from corn and corn siftings.	As certified, -----	3111
3.51	-----	2.96	-----	3 55			
3.44	-----	2.34	-----	3 33			
4.02	4.00	1.85	4.00	2 55	-----	Low grade flour, -----	2585
5.06	5.00	4.08	5.00	3 15	-----	Low grade flour, -----	3447
3.75	2.00	2.69	5.00	55 00	Pure wheat product, ---	As certified, -----	2927
4.22	2.00	2.51	5.00	3 55	Pure wheat product, ---	As certified, -----	3607
3.99	-----	2.60	-----	63 00			
4.39	4.00	2.85	3.00	2 55	-----	Low grade flour, -----	2877
4.29	-----	2.79	-----	58 20			
3.93	-----	4.74	-----	2 40	-----	Wheat middlings, -----	2565
3.73	-----	4.41	-----	2 35	-----	Wheat middlings, -----	2895

TABLE IV.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled at	Moisture.	Protein.	
				Found.	Guaranteed.
2467	J. S. BROWN, LOYSBURG, PA. Wheat Middlings,* -----	Bedford, J. M. Prosser, --	Per ct. 10.51	Per ct. 16.00	Per ct. -----
2578	CANBY ROLLER MILLS, CANBY, MINN. Fancy White,* -----	Kittanning, William Gates Estate.	10.37	17.00	16.20
3479	CENTRE HALL FLOURING MILLS, CENTRE HALL, PA. Pure Winter,* -----	Altoona, H. H. Langdon,	13.06	15.31	14-17
2879	GLENHAM ROLLER MILLS, GLEN- HAM, S. DAK. Middlings,* -----	Carnegie, Riehey & Me- Farland.	9.76	16.69	-----
3114	GLOBE ELEVATOR CO., BUF- FALO, N. Y. Fancy White,* -----	St. Marys, Hall, Kaul & Hyde Co.	11.56	16.13	13-15
2595	THE GWINN MILLING CO., COL- UMBUS, OHIO. Gwinn, -----	New Kensington, A. H. Klugh.	10.98	16.19	16.00
2965	HECKER-JONES-JEWELL MILLING CO., BUFFALO, N. Y. Fancy White, -----	Port Allegany, Port Alle- gany Milling Co.	10.62	17.25	16.00
3024	JOHN HOFFER FLOURING MILL CO., STEELTON, PA. Hoffer's Pure Wheat Shorts, -----	Hershey, Hershey Store Co.	11.16	17.63	11.00
2552	Hoffer's Pure Wheat Shorts, -----	Elizabethtown, Lehman & Wolgemuth.	9.06	18.00	14.00
		Average, -----	10.11	17.82	-----
2750	Winter, -----	Hanover, Wm. J. Young & Co.	9.50	17.31	14.00
2973	THE WM. KELLY MILLING CO., HUTCHINSON, KANS. Wheat Middlings, -----	Coudersport, Eulalia Mill- ing Co.	10.97	18.06	16.00
3554	LARABEE FLOUR MILLS CORP., HUTCHINSON, KANS. Standard Wheat Shorts, -----	Homer City, Thomas K. George.	11.21	20.06	17.00
3415	MAPLE LEAF MILLING CO., LTD., TORONTO, CANADA. Bonny Flour,* -----	Philadelphia, Walton Brothers.	11.43	18.38	15.50
3300	Rex,* -----	Philipsburg, Lauderbach- Zerby Co.	11.00	15.44	16.00
3573	THE MARION NATIONAL MILL CO., MARION, OHIO. Middlings,* -----	Zellenople, J. J. Kennedy,	11.65	16.25	16.20
2959	MILLBOURNE MILLS, PHILADEL- PHIA, PA. Millbourne, -----	Llanerch, S. H. Moore, --	10.80	16.56	16-17
2767	NATIONAL MILLING CO., MINNE- APOLIS, MINN. Choclee Pure, -----	Somerset, Saylor & Woy,	9.88	16.25	17.10
3167	NORTHWESTERN MILLING CO., LITTLE FALLS, MINN. Fancy Country Middlings, -----	Oil City, New Model Mill- ing Co.	12.23	16.44	14.50
3168	White Flour, -----	Oil City, New Model Mill- ing Co.	12.06	16.69	14.50

*Not registered.

FEEDING STUFFS COLLECTED IN 1917.—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemists' number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct. 3.58	Per ct. -----	Per ct. 4.58	Per ct. -----	\$ 2 00	-----	Wheat middlings, -----	2467
5.27	4.70	6.70	8.40	2 10	-----	Wheat middlings, -----	2578
3.96	3.5-4.5	3.44	-----	3 25	-----	Wheat middlings, -----	3479
5.04	-----	6.12	-----	2 25	-----	Wheat middlings, -----	2879
4.73	3-5	5.62	4-5	3 50	-----	Wheat middlings, -----	3114
5.13	4.00	4.43	7.50	2 25	-----	Wheat middlings, -----	2595
5.11	4.75	3.42	5.85	3 00	Made from wheat, -----	As certified, -----	2965
5.94	3.00	6.82	11.00	48 00	-----	Wheat middlings, -----	3024
5.02	3.00	7.72	11.00	1 95	-----	Wheat middlings, -----	2552
5.48	-----	7.27	-----	43 50	Made from all winter wheat guaranteed pure and unadulterated.	As certified, -----	2750
4.14	2.00	3.55	-----	2 25			
5.10	3.50	4.83	5.50	2 80	-----	Wheat middlings, -----	2973
5.08	4.50	4.62	5.50	3 00	-----	Wheat middlings, -----	3554
5.49	5.50	6.21	8.00	53 00	-----	Wheat middlings, -----	3415
5.15	5.50	8.00	10.00	48 00	-----	Wheat middlings, -----	3300
5.69	4.60	4.92	5.00	57 00	Pure products of wheat only.	As certified, -----	3573
3.88	4-5	5.47	3-4	2 80	Manufactured from wheat.	As certified, -----	2959
5.10	5.00	7.80	9.20	2 25	Pure and adulterated wheat.	As certified, -----	2767
4.84	5.00	8.94	9.00	2 60	-----	Wheat middlings, -----	3167
4.35	5.00	5.55	7.00	2 70	-----	Wheat middlings, -----	3168

TABLE IV.—ANALYSES OF SAMPLES OF

Chemists' Number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled at	Moisture.	Protein.	
				Found.	Guaranteed.
2523	OSAKIS MILLING CO., OSAKIS, MINN. Fancy White, -----	Smethport, Herzog Milling Co.	Per ct. 10.64	Per ct. 18.63	Per ct. 15.00
3520	PATTERSON MILLING CO., SALTSBURG, PA. Fresh Ground White, -----	Blairsville, J. A. McKelvey,	11.41	18.19	-----
2587	RED BANK MILLS, NEW BETHLEHEM, PA. Winter,* -----	Kittanning, D. H. Borats,	11.14	16.75	-----
2778	RUSSELL-MILLER MILLING CO., MINNEAPOLIS, MINN. Standard, -----	Somerset, H. C. Beerits' Sons.	9.75	16.00	15.00
2812	Standard, -----	Lock Haven, E. E. Wentz,	10.24	16.44	15.00
2891	STAR AND CRESCENT MILLING CO., CHICAGO, ILL. Crescent White, -----	Average, ----- Canonsburg, Wm. H. Dunlap, Jr.	9.99 9.74	16.22 16.19	----- 16.00
3371	D. A. STICKELL & SONS, HAGERS TOWN, MD. Middlings,* -----	Williamson, S. F. Peeki-man.	12.03	18.69	-----
2856	F. W. STOCK & SONS, HILLSDALE, MICH. Middlings, -----	Titusville, Grange Milling Co.	9.85	15.19	16.50
2591	THE TOLEDO GRAIN & MILLING CO., TOLEDO, OHIO. Camp's Standard,* -----	New Kensington, J. A. Hawk.	10.40	16.25	15.50
3519	Camp's Standard,* -----	Blairsville, J. A. McKelvey,	10.38	17.25	15.50
		Average, -----	10.39	16.75	-----
2558	C. Y. WAGNER, BELLEFONTE, PA. Pure Winter,* -----	Philipsburg, J. O. Reed,	12.95	16.13	-----
2875	THE WARWICK CO., MASSILLON, OHIO. Middlings,* -----	Wilkinsburg, Johnston & Smith.	10.71	14.75	15.31
2698	Middlings,* -----	Greensburg, D. F. Kilgore & Co.	11.46	15.31	15.31
3523	Middlings,* -----	Blairsville, George J. New,	11.15	15.06	15.35
		Average, -----	11.10	15.04	-----
3108	YERXA - ANDREWS - THURSTON, MINNEAPOLIS, MINN. Durum, -----	St. Marys, Jacob & Keller Co.	11.26	16.25	14.50
3163	J. F. YOUNGMAN, SELINSGROVE, PA. Wheat Middlings,* -----	Selinsgrove, J. F. Youngman.	12.82	16.06	-----
2918	ZENITH MILLING CO., KANSAS CITY, MO. Pure Wheat Shorts, -----	Punxsutawney, Keystone Flour & Feed Co.	10.31	17.56	16.00
2420	Pure Wheat Shorts, -----	Windber, Weaver & Burkey.	10.19	17.38	16.00
		Average, -----	10.25	17.47	-----
		Total average, -----	10.92	16.67	-----

*Not registered.

FEEDING STUFFS COLLECTED IN 1917.—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemists' number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct. 6:05	Per ct. 4.00	Per ct. 5.39	Per ct. 11.00	\$ 2 25	-----	Wheat middlings and small amount of ground screenings.	2523
6.18	-----	5.00	-----	3 25	-----	Wheat middlings, -----	3520
5.55	-----	5.46	-----	2 10	-----	Wheat middlings, -----	2587
5.31	4.00	8.09	8.00	2 35	Made from wheat only,	Wheat middlings and small amount ground screenings.	2778
5.63	4.00	8.04	9.00	2 25	Made from wheat only,	As certified, -----	2812
5.47	-----	8.06	-----	2.30			
4.76	4.00	3.88	6.00	45 00	-----	Wheat middlings, -----	2891
5.34	-----	4.12	-----	3 00	-----	Wheat middlings, -----	3371
4.75	4.00	6.58	6.00	2 60	Made from pure wheat,	As certified, -----	2856
5.37	6.00	6.92	5.00	2 20	-----	Wheat middlings, -----	2591
5.36	6.00	7.08	5.00	2 80	-----	Wheat middlings, -----	3519
5.37	-----	7.00	-----	2 50			
4.65	-----	3.24	-----	2 20	-----	Wheat middlings, -----	2558
4.52	4.30	4.80	5.78	2 35	-----	Wheat middlings, -----	2875
4.42	4.30	4.84	5.78	2 50	-----	Wheat middlings, -----	2698
5.13	4.05	5.07	4.75	60 00	Pure winter wheat mid- dlings.	As certified, -----	3523
4.69	-----	4.90	-----	52 33			
6.76	5.50	8.08	10.50	2 60	-----	Wheat middlings, -----	3108
4.47	-----	4.88	-----	2.70	-----	Wheat middlings, -----	3163
5.46	3.50	5.27	9.00	2 65	-----	Wheat middlings, -----	2918
5.19	3.50	6.13	9.00	1 90	-----	Wheat middlings, -----	2420
5.33	-----	5.70	-----	2 28			
5.00	-----	5.66	-----	50 62			

TABLE IV.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled at	Moisture.	Protein.	
				Found.	Guaranteed.
	WHEAT MIDDLINGS WITH ADMIXTURES.				
2567	ACME-EVANS CO., INDIANAPOLIS, IND. Acme Middlings, -----	Morrisdale, Morrisdale Feed & Grain Co., Inc.	Per ct. 11.01	Per ct. 16.56	Per ct. 16.50
3099	ACME MILLING CO., OLEAN, N. Y. Wheat Flour Middlings, -----	Ridgway, Smith Brothers Co.	11.65	16.06	16.50
3461	AVISTON MILLING CO., AVISTON, ILL. Hobby Horse White Middlings,* ----	Gettysburg, C. M. Wolf,	9.12	15.75	15.50
3148	BALDWIN FLOUR MILLS, MINNEAPOLIS, MINN. Wheat Shorts, -----	Carrolltown, W. A. Eckerdode.	10.30	16.25	15.50
2690	BAY STATE MILLING CO., WINONA, MINN. Winona Wheat Middlings, -----	Greensburg, McFarland Supply Co.	10.75	16.38	15.00
3179	BLAINE, MACKAY & LEE CO., NORTH EAST, PA. Pure Wheat Middlings and Screenings.	Tionesta, Lanson Brothers,	11.14	16.19	16.00
2987	BUFFALO FLOURING MILLS, LEWISBURG, PA. Wheat Middlings with Screenings,* ---	Lewisburg, Buffalo Flouring Mills.	13.81	19.69	-----
2704	THE BUTTE & WHITE SWAN MILLS, KANSAS CITY, KANS. Standard Shorts and Screenings,* ---	Latrobe, Golde Flour & Feed Store.	11.20	17.13	17.00
2579	GEORGE C. CHRISTIAN, MINNEAPOLIS, MINN. Berkshire Wheat Middlings, -----	Kittanning, Wm. Gates Estate.	10.80	16.75	15.00
2756	CLARO MILLING CO., LAKEVILLE, MINN. Claro Wheat Standard Middlings, ---	Lancaster, Nein & Fisher,	13.09	16.19	14.00
2489	THE CLEVELAND MILLING CO., CLEVELAND, OHIO. Special Fine Middlings, -----	Scottdale, City Feed Store,	11.48	16.13	15.00
2490	Standard Middlings, -----	Scottdale, City Feed Store,	10.45	16.63	13-16

*Not registered.

FEEDING STUFFS COLLECTED IN 1917.—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemists' number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct. 4.78	Per ct. 4.50	Per ct. 6.11	Per ct. 8.00	\$ 2 30	Wheat middlings and not exceeding mill run of ground cleaned wheat screenings.	As certified, -----	2567
5.05	5.00	5.48	4.80	3 40	Wheat flour middlings with ground screenings not exceeding mill run.	As certified, -----	3099
3.89	3.50	6.87	7.00	2 75	Made from wheat with ground screenings not exceeding mill run.	As certified, -----	3461
5.35	5.00	8.00	10.00	2.70	Wheat shorts with not exceeding mill run of ground screenings.	As certified, -----	3148
4.70	5.00	5.63	8.00	2 20	Wheat middlings with ground screenings not exceeding mill run.	As certified, -----	2690
5.15	4.00	4.68	6.00	2 75	Pure wheat middlings with mill run screenings.	As certified, -----	3179
5.11	-----	3.55	-----	50 00	Wheat middlings with ground screenings not exceeding mill run.	As certified, -----	2987
4.82	5.80	6.56	10.00	2 25	Wheat shorts and wheat screenings not to exceed 10% of screenings.	As certified, -----	2704
5.37	4.00	5.00	8.00	2 20	Wheat flour middlings with ground screenings not exceeding mill run.	As certified, -----	2579
5.55	3.00	8.95	12.00	2 15	Claro wheat standard middlings with ground screenings not exceeding mill run.	As certified, -----	2756
4.24	4.50	3.81	6.00	2 25	Made from wheat with ground screenings not exceeding mill run.	As certified, -----	2489
4.64	4-6	5.59	9.00	1 90	Made from wheat with ground screenings not exceeding mill run.	As certified, -----	2490

TABLE IV.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled at	Moisture.	Protein.	
				Found.	Guaranteed.
3149	COMMANDER MILL CO., MINNEAPOLIS, MINN. Wheat Standard Middlings, -----	Carrolltown, W. A. Eckenrode.	Per ct. 11.11	Per ct. 14.63	Per ct. 15.00
2852	CROUCH BROTHERS CO., ERIE, PA. Wheat Middlings, -----	Titusville, Titusville City Mills.	9.88	15.81	15.00
2487	THE JOHN P. DOUSMAN MILLING CO., DE PERE, WIS. Fine Middlings, -----	New Salem, Mike Duyava,	10.57	17.69	15.00
2468	DULUTH-SUPERIOR MILLING CO., DULUTH, MINN. Standard Middlings, -----	Bedford, John M. Prosser,	9.86	16.56	16.50
3407	White (Pig) Middlings, -----	Brookville, Kline's Sifter Mills.	11.75	16.44	16.50
2718	B. A. ECKHART MILLING CO., CHICAGO, ILL. Middlings, -----	York, F. Loucks & Son,	9.94	16.13	14.00
2871	THE HARTER MILLING CO., TOLEDO, OHIO. Harter's Winter Wheat Feed, -----	Braddock, Braddock Feed & Supply House.	9.24	16.63	15.00
3369	Harter's Winter Wheat Feed, -----	Williamson, J. D. Goldsmith.	10.85	15.56	15.00
		Average, -----	10.04	16.10	-----
2968	HECKER-JONES-JEWELL MILLING CO., BUFFALO, N. Y. Standard Middlings, -----	Port Allegany, Port Allegany Milling Co.	10.63	17.25	16.50
3489	HUNTER-ROBINSON-WENZ MILLING CO., ST. LOUIS, MO. Saxony Choice White Wheat Midds.,	Jeannette, Keystone Supply Co.	11.36	17.56	15.50
3308	KOEHLER FLOUR MILLS CO., ST. LOUIS, MO. Rex Middlings, -----	Ebensburg, Veith Brothers,	11.21	18.06	16.00
2919	THE KINGMAN MILLING CO., KINGMAN, KANS. Standard Wheat Shorts and Sereenings.*	Punxsutawney, Jefferson Flour & Feed Co.	11.22	17.19	-----

*Not registered.

FEEDING STUFFS COLLECTED IN 1917.—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct. 5.13	Per ct. 4.00	Per ct. 7.34	Per ct. 9.00	\$ 2 70	Wheat standard middlings with ground screenings not exceeding mill run.	As certified, -----	3149
5.07	5.00	5.82	5.00	2 60	Wheat middlings with ground screenings not exceeding mill run.	As certified, -----	2852
5.27	4.50	5.55	9.00	2 00	Fine middlings with ground screenings not exceeding mill run.	As certified, -----	2487
5.23	4.70	6.46	6.10	1 90	Wheat standard middlings with ground screenings not exceeding mill run.	As certified, -----	2468
5.70	5.00	5.04	7.00	2 75	Wheat flour middlings with ground screenings not exceeding mill run.	As certified, -----	3407
4.72	4.00	7.32	7.00	2 25	Middlings with ground screenings not exceeding mill run.	Wheat middlings, ground screenings with trace whole weed seeds.	2718
5.15	4.00	6.22	6.50	2 25	Middlings with ground screenings not exceeding mill run.	As certified, -----	2871
3.81	4.00	4.88	6.50	2 90	Middlings with ground screenings not exceeding mill run.	As certified, -----	3369
4.48	-----	5.55	-----	2 58			
5.75	6.00	8.46	8.50	2 60	Wheat middlings with mill run screenings. Made from wheat.	As certified, -----	2968
5.17	4.50	5.40	8.00	57 00	Wheat midds with ground screenings not exceeding mill run.	As certified, -----	3489
4.52	4.00	6.63	7.00	2 75	Hard wheat with ground screenings not exceeding mill run.	As certified, -----	3308
4.54	-----	4.82	-----	2 65		Wheat shorts and screenings.	2919

TABLE IV.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled at	Moisture.	Protein.	
				Found.	Guaranteed.
3312	CHARLES A. KRAUSE MILLING CO., MILWAUKEE, WIS. Badger Fancy Middlings, -----	Portage, B. N. Palmer & Co.	Per ct. 11.60	Per ct. 13.06	Per ct. 12.00
2701	LA GRANGE MILLS. RED WING, MINN. Extra Quality Fine Wheat Middlings,	Latrobe, Latrobe Feed & Supply Co.	10.79	16.38	15.50
2431	NEWSOME FEED & GRAIN CO., PITTSBURGH, PA. Palmo Midds, -----	South Fork, J. E. Crisman.	5.00	16.75	16.00
2770	Palmo Midds, -----	Somerset, John G. Emert,	6.45	16.69	16.00
2428	Palmo Midds, -----	Johnstown, J. H. Hersberger & Son.	5.70	16.94	16.00
2592	Palmo Midds, -----	New Kensington, A. H. Klugh.	5.03	17.31	16.00
3234	Palmo Midds, -----	Farrell, J. B. Roux,-----	6.72	17.44	16.00
		Average, -----	5.78	17.03	-----
2481	PILLSBURY FLOUR MILLS CO., MINNEAPOLIS, MINN. Pillsbury's Wheat "A" Middlings with Ground Screenings not exceeding Mill Run.	Fairehance, A. M. Frederick, Jr.	10.91	16.56	15.00
2480	Pillsbury's Wheat Standard "B" Middlings with Ground Screenings not exceeding Mill Run.	Fairehance, A. M. Frederick, Jr.	9.33	16.19	14.00
3208	Pillsbury's Wheat Standard "B" Middlings with Ground Screenings not exceeding Mill Run.	Minersville, E. F. Krause,	12.71	15.81	14.00
2604	Pillsbury's Wheat Standard "B" Middlings with Ground Screenings not exceeding Mill Run.	Mt. Pleasant, F. E. Painter.	10.55	16.13	14.00
3405	Pillsbury's Wheat Standard "B" Middlings with Ground Screenings not exceeding Mill Run.	Clarion, A. C. Snyder & Son.	10.49	16.81	14.00
		Average, -----	10.77	16.24	-----
2726	SHANE BROS. & WILSON CO., MINNEAPOLIS, MINN. Wheat Standard Middlings, -----	York, H. H. Smyser, ---	9.87	15.63	15.90
2915	SHEFFIELD-KING MILLING CO., MINNEAPOLIS, MINN. Fairby Standard Middlings, -----	West End Punxsutawney, Lindsey Milling Co.	10.97	16.19	15.00
2479	STOKES MILLING CO., WATERTOWN, S. DAK. Wheat Middlings, -----	Fairehance, A. M. Frederick, Jr.	10.41	17.94	15.90
3156	ST. PAUL MILLING CO., ST. PAUL, MINN. Komo Wheat Middlings,* -----	Millerstown, I. B. Secrist.	10.98	16.31	15.00
		Total average, -----	10.24	16.53	-----

*Not registered.

FEEDING STUFFS COLLECTED IN 1917.—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemists' number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct. 7.87	Per ct. 4.50	Per ct. 4.73	Per ct. 7.00	\$ 56 00	Made from maize red-dog flour and wheat middlings with ground screenings not exceeding mill run.	As certified, -----	3312
5.25	5.00	7.44	9.50	2 25	Extra quality wheat fine middlings with ground screenings not exceeding mill run.	As certified, -----	2701
8.53	6.00	6.36	7.00	1 75	Cleaning middlings and palm oil.	Wheat middlings and palm oil.	2431
7.01	6.00	5.54	7.00	2 00	Cleaning middlings and palm oil.	Rye middlings and palm oil.	2770
7.33	6.00	5.81	7.00	1 70	Cleaning middlings and palm oil.	Wheat middlings and palm oil.	2428
7.47	6.00	6.87	7.00	1 85	Cleaning middlings and palm oil.	Wheat middlings and palm oil.	2592
6.30	6.00	6.11	7.00	44 00	Cleaning middlings and palm oil.	Wheat middlings and palm oil.	3234
7.33	-----	6.13	-----	38 00			
4.70	4.00	5.45	8.00	2 25	Wheat middlings standard "B" and low grade flour with ground screenings not exceeding mill run.	As certified, -----	2481
5.20	4.00	10.14	11.00	2 00	Wheat standard "B" middlings with ground screenings not exceeding mill run.	As certified, -----	2480
5.02	4.00	8.58	11.00	2 60	Wheat standard "B" middlings with ground screenings not exceeding mill run.	As certified, -----	3208
5.14	4.00	8.95	11.00	2 25	Wheat standard "B" middlings with ground screenings not exceeding mill run.	As certified, -----	2694
4.84	4.00	8.35	11.00	2 70	Wheat standard "B" middlings with ground screenings not exceeding mill run.	As certified, -----	3405
5.05	-----	9.00	-----	2 39			
6.00	4.50	9.12	10.00	40 00	Wheat standard middlings with ground screenings not exceeding mill run.	As certified, -----	2726
6.13	5.00	7.48	9.50	2 60	Standard middlings, wheat product and pulverized wheat screenings.	As certified, -----	2915
5.44	5.50	6.88	8.50	2 25	Country wheat middlings with ground screenings not exceeding mill run.	As certified, -----	2479
5.12	4.50	7.97	10.50	2 40	Wheat standard middlings with ground screenings not exceeding mill run.	As certified, -----	3156
5.40	-----	6.50	-----	47 58			

TABLE IV.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled at	Moisture.	Protein.	
				Found.	Guaranteed.
	MIXED FEED—WHEAT BY-PRODUCTS.				
3196	BAY STATE MILLING CO., WINONA, MINN. Winona Fancy Mixed Wheat Feed, --	Pottsville, Jalappa Grain Elevator.	Per ct. 10.85	Per ct. 16.13	Per ct. 15.00
2930	Winona Fancy Mixed Wheat Feed, --	DuBois, L. M. Kriner, --	11.34	15.63	14.00
		Average, -----	11.09	15.88	-----
3321	DULUTH-SUPERIOR MILLING CO., DULUTH, MINN. Boston Mixed Feed, -----	Troy, Farmers & Consumers Commercial Union.	10.14	17.69	16.00
2929	HECKER-JONES-JEWELL MILLING CO., BUFFALO, N. Y. Mixed Feed, -----	DuBois, L. M. Kriner, --	9.68	16.44	15.00
3404	PILLSBURY FLOUR MILLS CO., MINNEAPOLIS, MINN. Fancy Wheat Mixed Feed, -----	Clarion, A. C. Snyder & Son.	6.20	18.00	14.00
3485	SAUERS MILLING CO., EVANSVILLE, ILL. Winter Wheat Shipstuff -----	Ligonier, Ligonier Flouring Mills.	11.15	16.44	14.00
3040	THREE FORKS MILLING CO., THREE FORKS, MONT. Sacajawea Mill Feed,* -----	New Castle, City Roller Mills.	12.52	16.31	14.20
		Total average, -----	10.26	16.66	-----
	WHEAT BRAN.				
2637	BARBER MILLING CO., MINNEAPOLIS, MINN. Pure Wheat Bran Flakes, -----	Beaver, A. F. Grine, ----	8.20	15.88	13-17
2549	Pure Wheat Bran Flakes, -----	Elizabethtown, Muth Brothers.	8.95	15.88	13-17
		Average, -----	8.57	15.88	-----
2691	BAY STATE MILLING CO., WINONA, MINN. Winona Coarse, -----	Greensburg, McFarland Supply Co.	7.84	15.88	13.00
2722	GRAFTON ROLLER MILL CO., GRAFTON, N. DAK. Bran, -----	York, H. H. Smyser, ----	8.69	16.25	15.80
3025	JOHN HOFFER FLOURING MILL CO., STEELTON, PA. Hoffer's Pure, -----	Hershey, Hershey Store Co.	9.51	16.50	14.00
2749	Hoffer's Pure, -----	Hanover, Win. J. Young & Co.	7.33	16.19	14.00
		Average, -----	8.44	16.35	-----

*Not registered.

FEEDING STUFFS COLLECTED IN 1917.—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct.	Per ct.	Per ct.	Per ct.	\$			
4.70	4.50	6.42	8.00	2 50	Wheat bran, middlings and reddog flour with ground screenings from wheat. Less than 6% screenings.	As certified, -----	3196
4.76	4.00	5.96	8.00	50 00	Wheat bran, middlings, and reddog flour with ground screenings from wheat.	As certified, -----	2930
4.73	-----	6.19	-----	50 00			
6.26	4.50	8.50	9.75	2 10	Wheat bran, middlings and low grade flour with ground screenings not exceeding mill run.	As certified, -----	3321
5.85	5.25	7.68	9.25	50 00	Mixed feed with mill run screenings. Made from wheat.	As certified, -----	2929
4.46	4.00	5.48	10.00	3 00	Wheat bran and low grade flour with ground screenings not exceeding mill run.	As certified, -----	3404
5.10	4.00	4.23	6.00	3 25	Winter wheat shipstuff with ground screenings not exceeding mill run.	Wheat mixed feed with ground screenings.	3485
4.79	4.50	8.37	12.30	40 00	-----	Wheat bran and middlings.	3040
5.13	-----	6.66	-----	51 00			
4.61	4-6	10.39	13.00	2 05	-----	Wheat bran, -----	2637
4.81	4-6	9.97	13.00	1 90	-----	Wheat bran, -----	2549
4.71	-----	10.18	-----	1 98			
5.31	4.00	9.43	12.00	2 10	Coarse wheat bran guaranteed free from screenings.	Wheat bran and trace screenings.	2691
5.15	4.00	8.42	11.90	-----	-----	Wheat bran, -----	2722
4.89	4.00	9.29	11.00	44 00	-----	Wheat bran and small amount ground screenings.	3025
4.59	4.00	9.41	11.00	2 20	-----	Wheat bran, -----	2749
4.74	-----	9.35	-----	44 00			

TABLE IV.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled at	Moisture.	Protein.	
				Found.	Guaranteed.
	KEMPER MILL & ELEVATOR CO., KANSAS CITY, MO.		Per ct.	Per ct.	Per ct.
3419	Anchor Pure, -----	Philadelphia, David McMullin.	9.12	16.88	14.50
2444	Anchor Pure, -----	McVeytown, John T. Rodgers.	8.60	15.56	14.50
		Average, -----	8.86	16.22	-----
	LISTMAN MILL CO., LA CROSSE, WIS.				
2903	Elmco Fancy, -----	Pottstown, A. K. Kulp,	8.96	15.31	14.88
3453	Elmco Fancy, -----	Gettysburg, J. W. McIlhenny.	9.42	17.56	14.87
2983	Elmco Fancy, -----	Lewisburg, E. C. Noll, --	10.46	16.63	14.87
2837	Elmco Fancy, -----	Carlisle, W. S. Stuart, ---	8.00	15.63	14.88
		Average, -----	9.21	16.28	-----
	MAUSER MILL CO., TREICHLERS, PA.				
3259	Pure, -----	E. Mauch Chunk, Stemler Brothers.	9.73	15.69	14.00
	MILLBOURNE MILLS, PHILADELPHIA, PA.				
2951	Pure, -----	Broomall, Bonsall Brothers.	10.97	15.88	15-16
	NATIONAL FEED COMPANY, ST. LOUIS, MO.				
3023	Pure, -----	Hershey, Hershey Store Co.	10.21	15.00	14.50
	NATIONAL MILLING CO., MINNEAPOLIS, MINN.				
3460	Pure, -----	Gettysburg, C. M. Wolf,	9.22	15.06	14.02
	THE NORTHWESTERN CONSOLIDATED MILLING CO., MINNEAPOLIS, MINN.				
3097	Pure, -----	Berwick, Berwick Store Co.	9.20	14.19	14.50
	OSAKIS MILLING CO., OSAKIS, MINN.				
2524	Osakis, -----	Smethport, Herzog Milling Co.	8.81	15.81	15-16
	THE QUAKER OATS CO., CHICAGO, ILL.				
2633	Wheat Bran, -----	West Bridgewater, W. W. McCullough.	7.55	17.00	-----
	RUSSELL-MILLER MILLING CO., MINNEAPOLIS, MINN.				
2810	Bran, -----	Lock Haven, E. E. Wentz,	7.87	16.69	13.00
	THE SOUTHWESTERN MILLING CO., INC., KANSAS CITY, MO.				
2601	Red Turkey Pure, -----	Norristown, Simpson Brothers.	9.90	17.38	14.50
	F. W. STOCK & SONS, HILLSDALE, MICH.				
2855	Bran, -----	Titusville, Grange Milling Co.	10.64	14.31	14.00
	THE TOLEDO GRAIN & MILLING CO., TOLEDO, OHIO.				
3184	Camp's Winter,* -----	Tionesta, G. W. Robinson & Son.	9.35	14.69	-----
	THE WARWICK CO., MASSILLON, OHIO.				
2874	Bran,* -----	Wilkinsburg, Johnston & Smith.	9.48	15.00	14.87
3526	Bran,* -----	Blairsville, George J. New,	10.02	16.81	15.85
		Average, -----	9.75	15.91	-----

*Not registered.

FEEDING STUFFS COLLECTED IN 1917.—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct.	Per ct.	Per ct.	Per ct.	\$			
4.38	4.00	9.01	10.00	39 00	Made from pure winter wheat.	As certified, -----	3419
4.33	4.00	9.35	10.00	32 00	Made from pure winter wheat.	As certified, -----	2444
4.36	-----	9.18	-----	35 50			
4.84	4.20	9.39	11.22	2 10	Pure and unadulterated, Manufactured from wheat.	As certified, -----	2903
5.09	3.31	9.48	12.27	2 00		As certified, -----	3453
4.83	3.31	9.01	12.27	2 00	Pure and unadulterated wheat bran.	As certified, -----	2983
5.16	4.20	9.53	11.22	43 00		Wheat bran, -----	2837
5.13	-----	9.35	-----	41 25			
4.98	5.00	8.38	9.00	2 25		Wheat bran, -----	3259
4.37	4-5	8.54	9-10	2 55	Manufactured from wheat.	As certified, -----	2951
4.68	4.00	8.92	10.00	44 00	Pure wheat bran, -----	As certified, -----	3023
6.79	4.00	11.72	10.10	2 00		Wheat bran, -----	3460
5.01	4.00	10.87	11.00	2 50	No screenings, no scourings.	As certified, -----	3097
5.50	5.18-4.5	9.94	12-11	1 85		Wheat bran, -----	2524
4.79	-----	9.50	-----	2 00		Wheat bran, -----	2633
5.49	4.00	8.60	11.00	2 25	Made from wheat only,	Wheat bran, -----	2810
4.57	4.00	8.50	10.20	40 00		Wheat bran, -----	2601
3.99	3.00	8.61	10.00	2 30	Made from pure wheat,	As certified, -----	2855
4.88	-----	9.10	-----	2 50	Guaranteed pure and unadulterated.	As certified, -----	3184
4.68	3.01	7.97	9.18	2 10		Wheat bran, -----	2874
4.50	4.45	7.41	8.30	45 00	Pure winter wheat bran,	As certified, -----	3526
4.59	-----	7.69	-----	43 50			

TABLE IV.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled at	Moisture.	Protein.	
				Found.	Guaranteed.
3162	J. F. YOUNGMAN, SELINGSGROVE, PA. Wheat Bran,* -----	Selinsgrove, J. F. Youngman.	Per ct. 11.25	Per ct. 15.38	-----
2889	UNKNOWN. Wheat Bran, -----	Canonsburg, Canonsburg Milling Co.	9.69	14.81	-----
	WHEAT BRAN WITH ADMIXTURES.	Total average, -----	9.20	15.85	-----
3151	BALDWIN FLOURING MILLS, MINNEAPOLIS, MINN. Wheat Bran, -----	Carrolltown, W. A. Eckenrode.	10.10	15.50	14.50
2768	Wheat Bran, -----	Somerset, Saylor & Woy,	7.86	15.94	14.50
		Average, -----	8.98	15.72	-----
2986	BUFFALO FLOURING MILLS, LEWISBURG, PA. Wheat Bran with Screenings,* -----	Lewisburg, Buffalo Flour Mills.	9.65	15.13	-----
2705	THE BULTE & WHITE SWAN MILLS, KANSAS CITY, KANS. Wheat Bran and Screenings,* -----	Latrobe, Golde Flour & Feed Store.	8.88	16.13	14.70
3427	CANNON VALLEY MILLING CO., MINNEAPOLIS, MINN. Wheat Bran, -----	Philadelphia, H. B. Cassel,	9.25	16.25	15.00
3100	C. V. Wheat Bran and Screenings, --	Ridgway, Smith Brothers Co.	9.89	15.88	15.00
2492	THE CLEVELAND MILLING CO., CLEVELAND, OHIO. Wheat Bran, -----	Scottsdale, City Feed Store,	8.04	15.63	14.00
3150	COMMANDER MILL CO., MINNEAPOLIS, MINN. Wheat Bran, -----	Carrolltown, W. A. Eckenrode.	10.55	14.19	14.00
2851	CROUCH BROTHERS CO., ERIE, PA. Wheat Bran, -----	Titusville, Titusville City Mills.	8.87	15.13	15.00
3140	THE JOHN P. DOUSMAN MILLING CO., DE PERE, WIS. Coarse Bran, -----	Spangler, E. F. Dumm, --	10.33	15.19	15.00
3370	B. A. ECKHART MILLING CO., CHICAGO, ILL. Bran, -----	Williamson, S. F. Peckiman.	8.19	15.60	14.00

*Not registered.

FEEDING STUFFS COLLECTED IN 1917.—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct.	Per ct.	Per ct.	Per ct.	\$			
4.18	-----	8.10	-----	2 70	-----	Wheat bran, -----	3162
4.44	-----	7.76	-----	40 00	-----	Wheat bran, -----	2889
4.87	-----	9.13	-----	42 85			
5.20	4.50	10.58	12.50	2 49	Wheat bran with not exceeding mill run of ground screenings.	As certified, -----	3151
5.89	4.00	9.82	12.00	2 10	Wheat bran with not exceeding mill run of ground screenings.	As certified, -----	2768
5.55	-----	10.20	-----	2 25			
5.29	-----	8.92	-----	36 00	Wheat bran with ground screenings not exceeding mill run.	As certified, -----	2986
4.89	4.45	9.98	10.00	2 10	Wheat bran and wheat screenings not to exceed 10% of screenings.	As certified, -----	2705
6.74	4.00	10.33	14.60	39 00	Wheat bran with ground screenings not exceeding mill run.	As certified, -----	3427
4.80	4.00	9.73	14.60	2 85	Wheat bran with ground screenings not exceeding mill run.	As certified, -----	3100
4.48	4.50	8.81	12.00	1 75	Wheat bran with ground screenings not exceeding mill run.	As certified, -----	2492
4.66	4.00	10.37	11.00	2 40	Wheat bran,—wheat product with ground screenings not exceeding mill run.	As certified, -----	3150
4.60	5.00	8.36	9.00	2 40	Wheat bran with ground screenings not exceeding mill run.	As certified, -----	2851
4.81	4.50	10.60	9.00	2 25	Coarse bran with ground screenings not exceeding mill run.	As certified, -----	3140
4.38	4.00	9.54	11.00	2 00	Bran with ground screenings not exceeding mill run.	As certified, -----	3370

TABLE IV.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled at	Moisture.	Protein.	
				Found.	Guaranteed.
2920	THE KINGMAN MILLING CO., KINGMAN, KANS. Wheat Bran and Screenings,* -----	Punxsutawney, Jefferson Flour & Feed Co.	Per ct. 10.04	Per ct. 15.75	-----
5555	LARABEE FLOUR MILLS CORP., HUTCHINSON, KANS. Wheat Bran, -----	Homer City, Thomas K. George.	9.60	17.88	15.00
3574	THE MARION NATIONAL MILL CO., MARION, OHIO. Wheat Bran and Screenings not ex- ceeding Mill Run.*	Zelienople, J. J. Kennedy,	10.00	15.13	15.20
2926	MAYFLOWER MILLS, FORT WAYNE, IND. Mayflower Bran, -----	Reynoldsville, Fales Gro- cery Co.	10.34	15.69	14.00
2512	NEW PRAGUE FLOURING MILL CO., NEW PRAGUE, MINN. Seal of Minnesota Bran, -----	Bradford, L. A. Fischer & Co.	9.20	15.69	13.30
3177	Seal of Minnesota Bran, -----	Oil City, Magee Feed Co.,	9.39	15.44	13.30
		Average, -----	9.29	15.57	-----
3416	NIAGARA GRAIN & FEED CO., LTD., TORONTO, CANADA. Bran and Ground Screenings not ex- ceeding Mill Run.*	Philadelphia, Walton Brothers.	9.32	16.50	14.50
3109	PILLSBURY FLOUR MILLS CO., MINNEAPOLIS, MINN. Wheat Bran, -----	St. Marys, Jacob & Kel- ler.	9.12	16.13	13.00
2695	Wheat Bran, -----	Mt. Pleasant, F. E. Painter.	7.76	15.50	13.00
		Average, -----	8.44	15.82	-----
2415	M. G. RANKIN & CO., MILWAU- KEE, WIS. Wheat Bran,* -----	Windber, Claude Davis, --	9.48	18.25	14.50
2754	RED WING MILLING CO., RED WING, MINN. Bixota Wheat Bran with Ground Screenings not exceeding Mill Run.	Laneaster, Nein & Fisher,	7.97	14.88	14.00
2533	ROYAL MILLING CO., GREAT FALLS, MONT. Royal Wheat Bran with Ground Screenings not exceeding Mill Run.*	Annville, Newgard & Bach- man.	7.70	16.69	14.50
3484	SAUERS MILLING CO., EVANS- VILLE, ILL. Winter Wheat Bran, -----	Ligonier, Ligonier Flour- ing Mills.	9.03	15.38	14.00

*Not registered.

FEEDING STUFFS COLLECTED IN 1917.—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct.	Per ct.	Per ct.	Per ct.	\$			
4.37		8.78		2 30		Wheat bran and screenings.	2920
4.30	3.50	8.66	10.50	2 25	Wheat bran with mill screenings not to exceed 8%.	As certified, -----	3555
4.67	4.40	9.18	9.00	44 00	Wheat bran and screenings not exceeding mill run. Pure product of wheat only.	As certified, -----	3574
5.12	4.00	8.63	9.50	48 00	Pure wheat product with ground screenings not exceeding mill run.	As certified, -----	2926
5.26	3.00	8.11	11.25	1 85	Wheat bran with ground screenings not exceeding mill run.	As certified, -----	2512
5.76	3.00	9.04	11.25	2 25	Wheat bran with ground screenings not exceeding mill run.	As certified, -----	3177
5.51		8.57		2 05			
5.24	4.00	9.10	11.00	37 50	Bran with ground screenings not exceeding mill run.	As certified, -----	3416
4.96	4.00	10.89	13.00	2 25	Wheat bran with ground screenings not exceeding mill run.	As certified, -----	3109
5.13	4.00	10.51	13.00	2 00	Wheat bran with ground screenings not exceeding mill run.	As certified, -----	2695
5.05		10.70		2 13			
4.02	4.00	7.75	9.50	1 70	Wheat bran with ground screenings not exceeding mill run.	Wheat bran, wheat middlings with ground screenings not exceeding mill run.	2415
5.37	4.80	10.47	13.20	2 10	Wheat bran with ground screenings not exceeding mill run.	As certified, -----	2754
5.21	3.00	7.45	9.00	35 00	Wheat bran with ground screenings not exceeding mill run.	Wheat bran, ground screenings and trace small whole weed seeds.	2533
4.63	3.00	8.17	10.00	2 25	Winter wheat bran with ground screenings not exceeding mill run.	As certified, -----	3484

TABLE IV.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled at	Moisture.	Protein.	
				Found.	Guaranteed.
2914	SHEFFIELD-KING MILLING CO., MINNEAPOLIS, MINN. Fancy Brodflake Wheat Bran, -----	West End Punxsutawney, Lindsey Milling Co.	Per ct. 10.64	Per ct. 14.50	Per ct. 13.50
2528	THE SIELLABARGER MILL & ELEVATOR CO., SALINA, KANS. Wheat Brown Shorts and Screenings,	Bradford, C. L. Douglas,	11.62	16.94	16.00
2841	STOKES MILLING CO., WATER- TOWN, S. DAK. Wheat Bran, -----	Carlisle, L. L. Riee, -----	7.81	16.13	13.90
3115	UPOIKE MILLING CO., OMAHA, NEBR. Wheat Bran,* -----	St. Marys, Hall, Kaul & Hyde Co.	10.47	15.13	13.00
2936	WASHBURN-CROSBY CO., MINNE- APOLIS, MINN. Wheat Bran, -----	Emporium, Emporium Mill- ing Co.	10.16	15.69	13.00
3304	WELLS FLOUR MILLING CO., WELLS, MINN. Wheat Bran with Ground Screenings,	Johnstown, A. F. Stutz- man & Co.	8.04	15.69	14.60
2537	WESTERN FLOUR MILL CO., DAVENPORT, IOWA. Blackhawk Wheat Bran with Ground Screenings not exceeding Mill Run.	Hummelstown, Jos. Burk- holder.	9.61	16.63	13.30
2488	Blackhawk Wheat Bran with Ground Screenings not exceeding Mill Run.	New Salem, Mike Duyava,	8.65	16.69	13.30
3019	WISCONSIN MILLING CO., MENO- MONIE, WIS. Wheat Bran,* -----	Average, ----- Palmyra, Early & Det- weiler.	9.13 10.04	16.66 16.06	----- 15.00
		Total average, -----	9.32	15.85	-----
	RYE OFFALS.				
	RYE MIDLINGS.				
3032	WASHBURN-CROSBY CO., MINNE- APOLIS, MINN. Pure Rye Middlings, -----	New Castle, Fisher & Mengle.	10.51	18.44	14.00
	WHEAT AND RYE OFFALS.				
	WHEAT AND RYE MIDLINGS.				
3372	B. A. ECKHART MILLING CO., CHICAGO, ILL. Wheat and Rye Middlings, -----	Williamson, S. F. Peeki- man.	10.06	16.13	14.00

*Not registered.

FEEDING STUFFS COLLECTED IN 1917.—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct. 4.88	Per ct. 3.50	Per ct. 7.49	Per ct. 12.75	\$ 2 50	Wheat bran and ground wheat screenings.	As certified, -----	2914
4.10	3.00	6.29	6.50	2 10	Wheat brown shorts and wheat screenings not to exceed 8% screenings.	As certified, -----	2528
4.89	3.50	9.28	11.60	2 25	Wheat bran with ground screenings not exceeding mill run.	As certified, -----	2841
4.62	3.00	8.87	13.00	3 00	Wheat bran with mill run screenings.	Wheat bran, screenings and small amount whole weed seeds.	3115
4.60	4.00	9.93	13.00	2 60	Wheat bran with ground screenings not exceeding mill run.	As certified, -----	2936
5.30	4.75	10.63	11.00	2 40	Wheat bran with ground screenings not exceeding mill run.	As certified, -----	3304
4.72	3.00	8.48	11.25	1 75	Wheat bran with ground screenings not exceeding mill run.	As certified, -----	2537
4.93	3.00	9.36	11.25	1 75	Wheat bran with ground screenings not exceeding mill run.	As certified, -----	2488
4.83	-----	8.02	-----	1 75			
4.94	4.00	9.98	-----	2 15	Wheat bran with ground screenings not exceeding mill run.	As certified, -----	3019
4.93	-----	9.21	-----	43 44			
3.55	3.00	5.16	5.00	2 50	-----	Rye middlings, -----	3082
4.44	4.00	6.99	7.00	2 50	Wheat and rye middlings with ground screenings not exceeding mill run.	As certified, -----	3372

TABLE IV.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled at	Moisture.	Protein.	
				Found.	Guaranteed.
OAT BY-PRODUCTS.					
OAT MEAL.					
	THE QUAKER OATS CO., CHICAGO, ILL.		Per ct.	Per ct.	Per ct.
3197	Schumacher Oat Meal,* -----	Pottsville, Jalappa Grain Elevator.	8.07	15.56	15.00
3230	Schumacher Oat Meal,* -----	Sharon, Sharon Flour & Feed Milling Co.	9.77	14.88	15.00
		Average, -----	8.92	15.22	-----
OAT FEED.					
	JONAS F. EBY & SON, LANCASTER, PA.				
3499	Oat Feed, -----	Lancaster, John W. Eschelman.	5.27	6.88	6.50
NORTHERN ILLINOIS CEREAL CO., LOCKPORT, ILL.					
3356	Re-Ground Oat Feed, Mill Run,* ----	Chambersburg, Diehl, Omwake & Diehl.	4.50	4.25	5.50
ROBIN HOOD MILLS, LTD., MOOSE JAW, CANADA.					
2547	Oat Feed, -----	Elizabethtown, Muth Brothers.	4.74	7.63	5.25
2755	Oat Feed, -----	Lancaster, Nein & Fisher,	5.14	6.75	5.25
		Average, -----	4.94	7.19	-----
		Total average, -----	4.91	6.38	-----
BUCKWHEAT OFFALS.					
BUCKWHEAT MIDDINGS.					
	LIGONIER FLOURING MILLS, LIGONIER, PA.				
2487	Buckwheat Middlings,* -----	Ligonier, Ligonier Flouring Mills.	11.42	30.88	-----
	MINER-HILLARD MILLING CO., WILKES-BARRE, PA.				
3600	Choice Buckwheat Middlings, with Screenings not exceeding Mill Run.	Wilkes-Barre, Miner-Hillard Milling Co.	12.55	26.88	20-25
	WARREN CITY MILLS, WARREN, PA.				
3384	Buckwheat Middlings,* -----	Warren, Warren City Mills.	12.52	28.81	-----
		Average, -----	12.16	28.86	-----
ALFALFA MEAL.					
	THE ALBERT DICKINSON CO., CHICAGO, ILL.				
2886	Alfalfa Meal, -----	Canonsburg, Canonsburg Milling Co.	8.37	14.94	-----
2470	Alfalfa Meal, -----	Johnstown, Johnstown Milling Co.	7.02	15.06	12.00
		Average, -----	7.69	15.00	-----
	EZL. DUNWOODY CO., PHILADELPHIA, PA.				
3339	Pure, -----	Philadelphia, Ezl. Dunwoody Co.	7.27	14.38	14-16

*Not registered.

FEEDING STUFFS COLLECTED IN 1917.—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct.	Per ct.	Per ct.	Per ct.	\$			
8.39	6.00	1.19	2.00	7 00	-----	Oat meal, -----	3197
7.62	6.00	1.05	2.00	6 00	-----	Oat meal, -----	3230
8.01	-----	1.12	-----	6 50			
2.12	2.50	27.54	27.50	26 50	-----	Oat feed, -----	3499
1.43	3.00	29.68	30.00	28 00	-----	Oat feed, -----	3356
3.64	2.50	23.03	28.00	1 50	-----	Oat feed, -----	2547
3.26	2.50	24.09	28.00	1 50	-----	Oat feed, -----	2755
3.45	-----	23.56	-----	1 50			
2.61	-----	26.08	-----	28 63			
9.36	-----	4.70	-----	2 00	-----	Buckwheat middlings,--	3487
7.86	5-8	7.34	7-12	2 75	-----	Buckwheat middlings with mill run ground screenings.	3600
7.81	-----	12.68	-----	2 75	-----	Buckwheat middlings,--	3384
8.34	-----	8.24	-----	2 50			
1.88	-----	27.69	-----	1 85	-----	Alfalfa meal, -----	2886
2.13	1.00	28.59	35.00	1 90	Made from alfalfa hay,	As certified, -----	2470
2.01	-----	28.14	-----	1 88			
1.84	2-3	32.57	27-30	38 00	-----	Alfalfa meal, -----	3339

TABLE IV.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled at	Moisture.	Protein.	
				Found.	Guaranteed.
3426	EMPIRE STATE ALFALFA MILLS, INC., MUNNSVILLE, N. Y. Alfalfa Meal, -----	Philadelphia, H. B. Cassel,	Per ct. 7.70	Per ct. 12.13	Per ct. 12.00
2893	HALES & EDWARDS CO., CHICAGO, ILL. Red Comb, -----	Canonsburg, Wm. H. Dunlap, Jr.	8.03	14.63	13.50
3064	Red Comb, -----	Washington, Russell Brothers.	10.03	12.88	13.50
		Average, -----	9.03	13.76	-----
2719	OMAHA ALFALFA MILLING CO., OMAHA, NEBR. Alfalfa Meal, -----	York, F. Loucks & Son,	5.92	15.31	12.00
2910	THE PARK & POLLARD CO., BOSTON, MASS. Alfalfa Meal, -----	Pottstown, S. Clouse & Co.	8.71	14.69	-----
2843	M. C. PETERS MILL CO., OMAHA, NEBR. Peters' Lucern, -----	Carlisle, L. L. Rice, -----	7.84	13.75	12.00
3018	RALSTON PURINA CO., INC., ST. LOUIS, MO. Purina Extra Quality, -----	Palmyra, Early & Detweiler.	9.91	18.06	14.00
2503	THE OTTO WEISS MILLING CO., WICHITA, KANS. Otto Weiss, -----	Harrisburg, Hoffer & Garman.	6.62	14.44	12.00
3605	JOHN B. YEAGER & CO., WILKES-BARRE, PA. Colorado,* -----	Wilkes-Barre, Robbins Milling Co.	6.53	15.81	-----
		Total average, -----	7.82	14.67	-----
DRIED BEET PULP.					
2872	THE LARROWE MILLING CO., DETROIT, MICH. Dried Beet Pulp, -----	Braddock, The Irvin Muir Co.	7.16	9.19	8.00
2513	Dried Beet Pulp, -----	Bradford, Smith Brothers,	8.27	10.13	8.00
2598	Dried Beet Pulp, -----	Norristown, Simpson Brothers.	7.52	9.88	8.00
		Average, -----	7.65	9.73	-----
MIXED FEEDS.					
PROPRIETARY DAIRY FEEDS.					
3215	ALTOONA FEED MILLS, ALTOONA, PA. Dairy Feed, -----	Altoona, Altoona Feed Mills.	12.11	10.19	7.00

*Not registered.

FEEDING STUFFS COLLECTED IN 1917.—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct. 2.09	Per ct. 1.00	Per ct. 31.81	Per ct. 35.00	\$ 40 00	-----	Alfalfa meal, -----	3426
1.73	1.00	31.82	35.00	1 85	Made from alfalfa product.	As certified, -----	2893
1.82	1.00	29.11	35.00	2 65	Made from ground alfalfa hay.	As certified, -----	3064
1.78	-----	30.46	-----	2 25			
1.81	1.00	29.03	30.00	2 00	Alfalfa meal, -----	As certified, -----	2719
1.90	-----	29.73	-----	2 00	-----	Alfalfa meal, -----	2910
2.04	0.50	30.10	33.00	2 50	Made from pure alfalfa hay.	As certified, -----	2843
3.17	1.50	22.29	29.00	2 00	Pure alfalfa hay, -----	As certified, -----	3018
2.27	1.00	31.67	35.00	1 75	Ground alfalfa hay, -----	As certified, -----	2503
2.27	-----	28.92	-----	3 00	-----	Alfalfa meal, -----	3605
2.08	-----	29.44	-----	42 33			
0.59	0.50	19.30	20.00	2 25	Residue of sugar beets dried after extraction of sugar.	As certified, -----	2872
0.83	0.50	19.11	20.00	1 80	Residue of sugar beets dried after extraction of sugar.	As certified, -----	2513
0.89	0.50	18.05	20.00	41 00	Residue of sugar beets dried after extraction of sugar.	As certified, -----	2598
0.77	-----	18.82	-----	40 67			
2.03	3.00	3.60	9.00	60 00	Corn, oat midds, oat hulls and barley.	As certified, -----	3215

TABLE IV.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled at	Moisture.	Protein.	
				Found.	Guaranteed.
	A M E R I C A N M I L L I N G C O . , P E O R I A , I L L .		Per ct.	Per ct.	Per ct.
3265	Amco Dairy Feed, -----	Weissport, D. O. Christman.	9.04	27.75	25.00
3138	Amco Dairy Feed, -----	Muncy, City Flouring Mills, Inc.	8.41	25.69	25.00
2771	Amco Dairy Feed, -----	Somerset, John G. Emert,	7.44	25.63	25.00
2972	Amco Dairy Feed, -----	Coudersport, Eulalia Milling Co.	8.29	27.00	25.00
3467	Amco Dairy Feed, -----	Hollidaysburg, Fay Milling Co.	8.79	27.56	25.00
3571	Amco Dairy Feed, -----	Zelienople, J. J. Kennedy,	8.65	28.31	25.00
2835	Amco Dairy Feed, -----	Carlisle, W. S. Stuart, --	5.96	25.00	25.00
2788	Amco Dairy Feed, -----	Gap, Jos. C. Walker & Sons Co.	6.65	26.25	25.00
3480	Amco Dairy Feed, -----	Derry, L. A. Wheeler,---	8.52	27.31	25.00
		Average, -----	7.97	26.72	-----
	J. J. BADENOCH CO., CHICAGO, ILL.				
3043	Graingold Dairy Ration, -----	New Castle, F. W. Hutchison & Son,	7.00	25.19	26.00
	BUFFALO FLOUR MILLS, MIL- TON, PA.				
3120	Cow Feed,* -----	Milton, Buffalo Flour Mills,	9.75	18.88	-----

*Not registered.

FEEDING STUFFS COLLECTED IN 1917.—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct. 7.80	Per ct. 8.00	Per ct. 11.65	Per ct. 16.00	\$ 2.85	Corn gluten feed, clipped oat by-product, corn distillers dried grains and solubles and salt.	As certified, -----	3265
8.38	8.00	13.33	16.00	2 00	Corn gluten feed, clipped oat by-product, corn distillers dried grains and solubles and salt.	As certified, -----	3138
8.07	8.00	12.99	14.00	2 00	Corn gluten feed, clipped oat by-product, corn distillers dried grains and salt.	Corn gluten feed, clipped oat by-product, distillers grains from corn and Kafir corn and salt.	2771
8.67	8.00	12.00	16.00	2 90	Corn gluten feed, clipped oat by-product, corn distillers dried grains and solubles and salt.	As certified, -----	2972
10.37	8.00	13.86	16.00	3 00	Corn gluten feed, clipped oat by-product, corn distillers dried grains and solubles and salt.	As certified, -----	3467
9.20	8.00	12.64	16.00	58 00	Corn gluten feed, clipped oat by-product, corn distillers dried grains and solubles, cottonseed meal, palm kernel meal and salt.	As certified, -----	3571
9.06	6.00	14.22	16.00	44 00	Corn gluten feed, clipped oat by-product, corn distillers dried grains and solubles and salt.	As certified, -----	2835
8.88	8.00	12.28	16.00	2 25	Corn gluten feed, clipped oat by-product, corn distillers dried grains and solubles and salt.	As certified, -----	2788
6.74	8.00	14.31	16.00	2 85	Corn gluten feed, clipped oat by-product, corn distillers dried grains and solubles and salt.	As certified, -----	3480
8.57	-----	13.03	-----	52 33			
6.88	5-6	10.56	10.00	2 60	Cottonseed meal, old process oil meal, corn distillers grains, dried brewers grains, malt sprouts, hominy feed, gluten meal, soya bean meal, corn feed meal, standard bran containing mill run screenings, phosphate of lime and salt.	As certified, -----	3043
5.64	-----	12.40	-----	2 40	Oil meal, corn and oats chop, bran, middlings, gluten, corby grains and sugarcane cottonseed feed.	As certified, -----	3120

TABLE IV.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled at	Moisture.	Protein.	
				Found.	Guaranteed.
2885	CHAPIN & CO., HAMMOND, IND. Unicorn Dairy Ration, -----	Canonsburg, Canonsburg Milling Co.	Per ct. 7.82	Per ct. 27.00	Per ct. 26.00
2935	Unicorn Dairy Ration, -----	Emporium, Emporium Milling Co.	9.54	25.81	26.00
3325	Unicorn Dairy Ration, -----	Troy, Farmers & Consum- ers Commercial Union.	6.92	27.56	26.00
4640	Unicorn Dairy Ration, -----	Beaver, A. F. Grine, ---	7.31	27.94	26.00
3509	Unicorn Dairy Ration, -----	Manheim, Lancaster County Farmers Asso- ciation.	5.21	27.00	26.00
3186	Unicorn Dairy Ration, -----	Franklin, J. H. Lavery's Sons.	9.70	26.31	26.00
		Average, -----	7.75	26.94	-----
3473	CLOVER LEAF MILLING CO., BUFFALO, N. Y. Big Clover Complete Ration, -----	Frankstown, J. Herbert Rodkey.	8.35	26.25	24.00
3358	DIEHL, OMWAKE & DIEHL, CHAMBERSBURG, PA. D. O. D. Dairy Feed, -----	Chambersburg, Diehl, Om- wake & Diehl.	8.04	21.06	21.00

FEEDING STUFFS COLLECTED IN 1917.—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct. 7.49	Per ct. 5.50	Per ct. 9.53	Per ct. 11.00	\$ 45 00	Corn distillers grains, cottonseed meal, linseed meal, hominy meal, gluten feed, corn starch by-product with corn bran, barley feed, malt sprouts, wheat bran, brewers grains and salt.	As certified, -----	2885
6.19	5.50	8.77	11.00	2 85	Corn distillers grains, cottonseed meal, linseed meal, hominy meal, gluten feed, corn starch by-product with corn bran, barley feed, malt sprouts, wheat bran, brewers grains and salt.	As certified, -----	2935
7.33	5.50	9.87	11.00	3 00	Corn distillers grains, cottonseed meal, linseed meal, hominy meal, gluten feed, corn starch by-product with corn bran, barley feed, malt sprouts, wheat bran, brewers grains and salt.	As certified, -----	3325
7.43	5.50	9.73	11.00	2 25	Corn distillers grains, cottonseed meal, linseed meal, hominy meal, gluten feed, corn starch by-product with corn bran, barley feed, malt sprouts, wheat bran, brewers grains and salt.	As certified, -----	2640
6.41	5.50	10.50	11.00	60 00	Corn distillers grains, cottonseed meal, linseed meal, hominy meal, gluten feed, corn starch by-product with corn bran, barley feed, malt sprouts, wheat bran, brewers grains and salt.	As certified, -----	3509
8.42	5.50	9.75	11.00	3 00	Corn distillers grains, cottonseed meal, linseed meal, hominy meal, gluten feed, corn starch by-product with corn bran, barley feed, malt sprouts, wheat bran, brewers grains and salt.	As certified, -----	3186
6.58	-----	9.69	-----	54 50			
4.28	4.50	10.54	15.00	3 00	Cottonseed meal, corn gluten meal, brewers dried grains, malt sprouts, wheat bran with screenings not exceeding mill run, linseed meal, alfalfa meal and $\frac{1}{2}$ of 1% salt.	As certified, -----	3473
5.44	6.50	14.36	14.00	49 00	Corn distillers grains, distillers rye grains, alfalfa meal, wheat bran, corn chop, oil meal, cottonseed meal and oats chop.	As certified, -----	3358

TABLE IV.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled at	Moisture.	Protein.	
				Found.	Guaranteed.
2859	THE GATES ELEVATOR CO., CLEVELAND, OHIO. Gates' Reliable Dairy Feed,* -----	Spartansburg, Brooklyn Milling Co.	Per ct. 6.22	Per ct. 21.69	Per ct. 21.00
2934	GLOBE ELEVATOR CO., BUF- FALO, N. Y. Globe Creamery Feed, -----	DuBois, J. F. Dinger Mill- ing Co.	8.71	22.13	23-25
3319	Globe Creamery Feed, -----	Troy, H. M. Spalding & Son.	10.04	27.25	23-25
		Average, -----	9.37	24.69	-----
2975	JAMESTOWN ELECTRIC MILLS, JAMESTOWN, N. Y. Jem Milk Maker, -----	Coudersport, Eulalia Mill- ing Co.	8.65	24.13	24.00
3455	CHARLES A. KRAUSE MILLING CO., MILWAUKEE, WIS. Badger Dairy Feed, -----	New Oxford, J. H. Dut- tera,	8.32	21.81	19.00
3298	Badger Dairy Feed, -----	Clearfield, J. T. Murphy,	8.61	22.38	19.00
		Average, -----	8.46	22.10	-----

*Not registered.

FEEDING STUFFS COLLECTED IN 1917.—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct. 6.00	Per ct. 7.00	Per ct. 14.76	Per ct. 9-11	\$ 45 00	Wheat bran, cottonseed meal, oil meal, corn gluten, distillers grains, brewers grains, malt sprouts, oat feed and trace of salt.	Wheat bran, cottonseed meal, linseed oil meal, corn gluten feed, distillers dried grains, brewers dried grains, malt sprouts, oat middlings, oat hulls and salt.	2859
5.12	5-7	8.54	9.00	2 65	Corn distillers dried grains, brewers dried grains, beet pulp, cottonseed meal, linseed oil meal clipped, oat by-product, wheat bran and middlings with ground grain screenings, corn gluten feed and salt $\frac{3}{4}$ of 1%.	As certified, -----	2934
3 56	5-7	9.27	9.00	2 65	Corn distillers dried grains, brewers dried grains, beet pulp, cottonseed meal, linseed oil meal clipped, oat by-product, wheat bran and middlings with ground grain screenings, corn gluten feed and salt $\frac{3}{4}$ of 1%.	As certified, -----	3319
4.51	-----	8.90	-----	2 65			
7.72	8.00	10.27	11.00	2 90	Corn distillers dried grains, brewers dried grains, wheat bran, wheat middlings, corn gluten feed, cottonseed meal, linseed oil meal, corn meal, corn oil meal, malt sprouts and small percentage of fine salt.	As certified, -----	2975
5.59	3.50	13.29	9.00	2 75	Cottonseed meal, brewers grains, corn gluten feed, old process linseed meal, hominy feed, corn germ meal, wheat bran and wheat middlings with ground screenings not exceeding mill run, oat meal mill by-product (oat middlings, oat hulls, oat shorts), and salt.	As certified, -----	3455
5.14	3.50	11.98	9.00	3 25	Cottonseed meal, brewers grains, corn gluten feed, old process linseed meal, hominy feed, corn germ meal, wheat bran and wheat middlings with ground screenings not exceeding mill run, oat meal mill by-product (oat middlings, oat hulls, oat shorts), and salt.	As certified, -----	3208
5.37	-----	12.63	-----	3 00			

TABLE IV.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled at	Moisture.	Protein.	
				Found.	Guaranteed.
2909	Krause Dairy Feed, -----	Pottstown, S. Clouse & Co.	Per ct. 7.87	Per ct. 24.06	Per ct. 24.00
3552	Krause Dairy Feed, -----	Homer City, Thomas K. George.	9.04	25.56	24.00
3217	Krause Dairy Feed, -----	Altoona, Klepser Brothers,	8.26	26.06	24.00
2435	Krause Dairy Feed, -----	Lewistown, Logan Flour Mills.	7.56	25.81	24.00
2761	Krause Dairy Feed, -----	Quarryville, Quarryville Farmers Association.	6.93	24.38	24.00
2838	Krause Dairy Feed, -----	Carlisle, L. L. Rice, -----	8.42	25.38	24.00

FEEDING STUFFS COLLECTED IN 1917.—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct. 5.13	Per ct. 5.00	Per ct. 12.02	Per ct. 10.00	\$ 2 30	Distillers dried grains, brewers dried grains, gluten feed, old process linseed oil meal, malt sprouts, cottonseed meal, hominy feed, badger corn oil meal, wheat bran and wheat middlings with ground screenings not exceeding mill run and salt.	As certified, -----	2909
5.75	5.00	10.83	13.00	3 00	Corn distillers dried grains, brewers dried grains, corn gluten feed, old process linseed oil meal, malt sprouts, cottonseed meal, hominy feed, corn germ meal, wheat bran and wheat middlings with screenings not exceeding mill run and salt.	As certified, -----	3552
5.51	5.00	11.60	10.00	3 00	Corn distillers dried grains, brewers dried grains, corn gluten feed, old process linseed oil meal, malt sprouts, cottonseed meal, hominy feed, corn germ meal, wheat bran and wheat middlings with screenings not exceeding mill run and salt.	As certified, -----	3217
5.88	5.00	11.89	10.00	2.10	Distillers dried grains, brewers dried grains, gluten feed, old process linseed oil meal, malt sprouts, cottonseed meal, hominy feed, badger corn oil meal, wheat bran and wheat middlings with ground screenings not exceeding mill run and salt.	Distillers dried grains, brewers dried grains, gluten feed, old process linseed oil meal, malt sprouts, cottonseed meal, hominy feed, badger corn oil meal, wheat bran and middlings with ground screenings not exceeding mill run, salt and small amount small whole weed seeds.	2435
6.57	5.00	10.66	10.00	44 00	Distillers dried grains, brewers dried grains, gluten feed, old process linseed oil meal, malt sprouts, cottonseed meal, hominy feed, badger corn oil meal, wheat bran and wheat middlings with ground screenings not exceeding mill run and salt.	As certified, -----	2761
6.65	5.00	10.25	10.00	2 50	Distillers dried grains, brewers dried grains, gluten feed, old process linseed oil meal, malt sprouts, cottonseed meal, hominy feed, badger corn oil meal, wheat bran and wheat middlings with ground screenings not exceeding mill run and salt.	As certified, -----	2838

TABLE IV.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled at	Moisture.	Protein.	
				Found.	Guaranteed.
3152	Krause Dairy Feed, -----	Millerstown, I. B. Seerist,	Per ct. 9.19	Per ct. 26.00	Per ct. 24.00
		Average, -----	8.17	25.32	-----
3036	THE LARROWE MILLING CO., DETROIT, MICH. Larro-Feed, -----	Berwick, T. M. Bomboy,	9.32	21.13	20.00
3546	Larro-Feed, -----	West Chester, C. C. Hipple & Son.	10.77	21.50	20.00
2461	Larro-Feed, -----	Everett, J. & C. Howard,	8.23	20.50	20.00
3406	Larro-Feed, -----	Brookville, Kline's Sifter Mills.	8.75	22.06	20.00
2901	Larro-Feed, -----	Pottstown, A. K. Kulp, --	8.58	20.13	20.00

FEEDING STUFFS COLLECTED IN 1917.—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct. 5.69	Per ct. 5.00	Per ct. 11.01	Per ct. 10.00	\$ 2 80	Corn distillers dried grains, brewers dried grains, corn gluten feed, old process linseed oil meal, malt sprouts, cottonseed meal, hominy feed, corn germ meal, wheat bran and wheat middlings with screenings not exceeding mill run and salt.	As certified, -----	3152
5.88	-----	11.18	-----	51 14			
4.26	3.00	11.48	14.00	2 75	Cottonseed meal, corn gluten feed, dried distillers grains (mainly from corn), dried beet pulp, standard wheat bran, standard wheat middlings and $\frac{3}{4}$ of 1% salt. Wheat bran and wheat middlings may contain ground screenings not exceeding mill run.	As certified, -----	3086
4.50	3.00	11.52	14.00	58 00	Cottonseed meal, corn gluten feed, dried distillers grains (mainly from corn), dried beet pulp, standard wheat bran, standard wheat middlings and $\frac{3}{4}$ of 1% salt. Wheat bran and wheat middlings may contain ground screenings not exceeding mill run.	As certified, -----	3546
3.96	3.00	12.42	14.00	2 00	Cottonseed meal, corn gluten feed, dried distillers grains (mainly from corn), dried beet pulp, standard wheat bran, standard wheat middlings and $\frac{3}{4}$ of 1% salt. Wheat bran and wheat middlings may contain ground screenings not exceeding mill run.	As certified, -----	2461
4.05	3.00	11.96	14.00	54 00	Cottonseed meal, corn gluten feed, dried distillers grains (mainly from corn), dried beet pulp, standard wheat bran, standard wheat middlings and $\frac{3}{4}$ of 1% salt. Wheat bran and wheat middlings may contain ground screenings not exceeding mill run.	As certified, -----	3406
4.66	3.00	11.38	14.00	2.15	Cottonseed meal, corn gluten feed, dried distillers grains (mainly from corn), dried beet pulp, standard wheat bran, standard wheat middlings and $\frac{3}{4}$ of 1% salt. Wheat bran and wheat middlings may contain ground screenings not exceeding mill run.	As certified, -----	2901

TABLE IV.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled at	Moisture.	Protein.	
				Found.	Guaranteed.
3476	Larro-Feed, -----	Altoona, C. Leibovitz, --	Per ct. 8.91	Per ct. 21.44	Per ct. 20.00
2873	Larro-Feed, -----	Braddock, The Irvin Muir Co.	8.64	20.56	20.00
2763	Larro-Feed, -----	Quarryville, The Quarryville Farmers Assoc.	8.22	20.63	20.00
3075	Larro-Feed, -----	Washington, Washington Milling Co.	9.00	20.94	20.00
		Average, -----	8.93	20.99	-----
3282	Larrowe's Big 6 Six Complete Dairy Feed.	Hickory, J. M. Caldwell,	9.42	21.25	21.00
2159	Larrowe's Big 6 Six Complete Dairy Feed.	Emporium, Emporium Milling Co.	9.95	21.19	21.00

FEEDING STUFFS COLLECTED IN 1917.—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct. 4.31	Per ct. 3.00	Per ct. 11.21	Per ct. 14.00	\$ 3 00	Cottonseed meal, corn gluten feed, dried distillers grains (mainly from corn), dried beet pulp, standard wheat bran, standard wheat middlings and $\frac{3}{4}$ of 1% salt. Wheat bran and wheat middlings may contain ground screenings not exceeding mill run.	As certified, -----	3476
4.20	3.00	11.30	14.00	2 10	Cottonseed meal, corn gluten feed, dried distillers grains (mainly from corn), dried beet pulp, standard wheat bran, standard wheat middlings and $\frac{3}{4}$ of 1% salt. Wheat bran and wheat middlings may contain ground screenings not exceeding mill run.	As certified, -----	2873
4.72	3.00	11.35	14.00	43 00	Cottonseed meal, corn gluten feed, dried distillers grains (mainly from corn), dried beet pulp, standard wheat bran, standard wheat middlings and $\frac{3}{4}$ of 1% salt. Wheat bran and wheat middlings may contain ground screenings not exceeding mill run.	As certified, -----	2763
3.59	3.00	11.70	14.00	2 40	Cottonseed meal, corn gluten feed, dried distillers grains (mainly from corn), dried beet pulp, standard wheat bran, standard wheat middlings and $\frac{3}{4}$ of 1% salt. Wheat bran and wheat middlings may contain ground screenings not exceeding mill run.	As certified, -----	3075
4.25	-----	11.59	-----	49 22			
5.98	4.00	9.10	12.00	2 75	Linseed oil meal, cottonseed meal, corn gluten feed, distillers dried grains (mainly from corn), hominy feed, wheat bran, wheat middlings and $\frac{3}{4}$ of 1% salt. Bran and middlings may contain ground screenings not exceeding mill run.	As certified, -----	3282
6.29	4.00	8.48	12.00	2 85	Linseed oil meal, cottonseed meal, corn gluten feed, distillers dried grains (mainly from corn), hominy feed, wheat bran, wheat middlings and $\frac{3}{4}$ of 1% salt. Bran and middlings may contain ground screenings not exceeding mill run.	As certified, -----	2939

TABLE IV.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled at	Moisture.	Protein..	
				Found.	Guaranteed.
3564	Larrowe's Big 6 Six Complete Dairy Feed.	Indiana, Hetrick-Wilson & Co.	Per ct. 6.86	Per ct. 22.13	Per ct. 21.00
3310	Larrowe's Big 6 Six Complete Dairy Feed.	Ebensburg, Leo C. Kimble.	9.21	21.63	21.00
3409	Larrowe's Big 6 Six Complete Dairy Feed.	Brookville, Kline's Sifter Mills.	9.06	21.88	21.00
2922	Larrowe's Big 6 Six Complete Dairy Feed.	Punxsutawney, Mahoning Valley Milling Co.	9.29	20.94	21.00
2933	Larrowe's Big 6 Six Complete Dairy Feed.	DuBois, A. T. Sprankle,	9.39	21.00	21.00
		Average, -----	9.02	21.43	-----
3389	CHARLES H. LONGCOPE, PHILADELPHIA, PA. Soft Feed,* -----	Philadelphia, Charles H. Longcope.	9.19	12.50	-----
3612	C. P. MATTHEWS & SONS, INC., SCRANTON, PA. Cow Feed. -----	Wilkes-Barre, C. P. Matthews & Sons, Inc.	9.67	23.88	15.00

*Not registered.

FEEDING STUFFS COLLECTED IN 1917.—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct. 7.91	Per ct. 4.00	Per ct. 9.01	Per ct. 12.00	\$ 2 80	Linseed oil meal, cottonseed meal, corn gluten feed, distillers dried grains (mainly from corn), hominy feed, wheat bran, wheat middlings and $\frac{3}{4}$ of 1% salt. Bran and middlings may contain ground screenings not exceeding mill run.	As certified, -----	3564
5.97	4.00	9.06	12.00	3 00	Linseed oil meal, cottonseed meal, corn gluten feed, distillers dried grains (mainly from corn), hominy feed, wheat bran, wheat middlings and $\frac{3}{4}$ of 1% salt. Bran and middlings may contain ground screenings not exceeding mill run.	As certified, -----	3310
6.04	4.00	9.22	12.00	54 00	Linseed oil meal, cottonseed meal, corn gluten feed, distillers dried grains (mainly from corn), hominy feed, wheat bran, wheat middlings and $\frac{3}{4}$ of 1% salt. Bran and middlings may contain ground screenings not exceeding mill run.	As certified, -----	3409
6.14	4.00	8.91	12.00	2 75	Linseed oil meal, cottonseed meal, corn gluten feed, distillers dried grains (mainly from corn), hominy feed, wheat bran, wheat middlings and $\frac{3}{4}$ of 1% salt. Bran and middlings may contain ground screenings not exceeding mill run.	As certified, -----	2922
6.13	4.00	9.72	12.00	2 85	Linseed oil meal, cottonseed meal, corn gluten feed, distillers dried grains (mainly from corn), hominy feed, wheat bran, wheat middlings and $\frac{3}{4}$ of 1% salt. Bran and middlings may contain ground screenings not exceeding mill run.	As certified, -----	2933
6.35	-----	9.07	-----	54 86			
3.61	-----	14.73	-----	-----	Alfalfa meal, crushed oats, cracked corn and wheat bran.	As certified, -----	3589
6.08	5.00	9.14	8.00	3 00	Bran, linseed, gluten and cottonseed.	As certified, -----	3612

TABLE IV.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled at	Moisture.	Protein.	
				Found.	Guaranteed.
3124	C. H. McMAHAN, MILTON, PA. McMahan's Milk & Muscle Producer,--	Milton, C. H. McMahan, --	Per ct. 8.46	Per ct. 27.06	Per ct. 23-25
3591	MINER-HILLARD MILLING CO., WILKES-BARRE, PA. Mihimico Dairy Feed, -----	Wilkes-Barre, Miner-Hillard Milling Co.	9.68	20.38	17.00
2738	NOWAK MILLING CORPORATION, BUFFALO, N. Y. Domino Milk Maker Dairy Feed, ----	York, Anderson Bros. & Co.	9.20	18.94	17.00
3257	Domino Creamery Feed, -----	Hazleton, Geo. W. Engle,	9.86	22.50	22.75
3129	Domino Creamery Feed, -----	Montgomery, C. L. Her- rold.	9.19	24.06	22.00
3260	Domino Creamery Feed, -----	Lehighton, Geo. D. Kresge,	9.49	25.69	22.00

FEEDING STUFFS COLLECTED IN 1917.—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct. 6.12	Per ct. 6-9	Per ct. 10.44	Per ct. 10-14	\$ 2 40	Brewers' dried grains, malt sprouts, cottonseed meal and hominy meal.	As certified, -----	3124
6.45	5.00	7.05	9.00	3 10	Hominy feed, corn oil meal, buckwheat middlings, wheat middlings, wheat bran, cottonseed meal, brewers' grains, old process oil meal and salt.	As certified, -----	3591
6.92	3.50	9.98	14.00	2 10	Cocoanut oil meal, cottonseed meal, malt sprouts, brewers' dried grains, clipped oat by-product, ground and bolted grain screenings and $\frac{3}{4}$ of 1% salt.	Cottonseed meal, malt sprouts, brewers' dried grains, clipped oat by-product, ground and bolted grains screenings, salt and large amount small whole weed seeds.	2738
6.99	4.00	9.98	12.00	2 90	Cottonseed meal, corn gluten feed, linseed oil meal, wheat middlings, corn distillers' dried grains, corn feed meal, clipped oat by-product, malt sprouts, brewers' dried grains, ground and bolted grain screenings, cocoanut oil meal and salt $\frac{3}{4}$ of 1%.	As certified, -----	3257
4.62	4.00	11.62	12.00	2 50	Cottonseed meal, corn gluten feed, linseed oil meal, wheat middlings, corn distillers' dried grains, corn feed meal, clipped oat by-product, malt sprouts, brewers' dried grains, ground and bolted grain screening, cocoanut oil meal and salt $\frac{3}{4}$ of 1%.	Cottonseed meal, corn gluten feed, linseed oil meal, wheat middlings, corn distillers' dried grains, corn feed meal, clipped oat by-product, malt sprouts, brewers' dried grains, ground and bolted grain screenings, cocoanut oil meal, salt and small amount small whole weed seeds.	3129
4.27	4.00	12.17	12.00	2 65	Cottonseed meal, corn gluten feed, linseed oil meal, wheat middlings, corn distillers' dried grains, corn feed meal, clipped oat by-product, malt sprouts, brewers' dried grains, ground and bolted grain screening, cocoanut oil meal and salt $\frac{3}{4}$ of 1%.	Cottonseed meal, corn gluten feed, linseed oil meal, wheat middlings, corn distillers' dried grains, corn feed meal, clipped oat by-product, malt sprouts, brewers' dried grains, ground and bolted grain screenings, cocoanut oil meal, salt and small amount small whole weed seeds.	3269

TABLE IV.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled at	Moisture.	Protein.	
				Found.	Guaranteed.
3350	Domino Creamery Feed, -----	Chambersburg, J. H. Smith & Sons.	Per ct. 8.34	Per ct. 22.56	Per ct. 22.00
		Average, -----	9.22	23.70	-----
3429	OWEN O'BRIEN ESTATE, PHILADELPHIA, PA. Mixed Feed,* -----	Philadelphia, Owen O'Brien Estate.	8.45	13.56	-----
2907	THE PARK & POLLARD CO., BOSTON, MASS. Stevens 44 Dairy Ration, -----	Pottstown, S. Clouse & Co.	8.12	25.00	24.00
3547	Stevens 44 Dairy Ration, -----	West Chester, T. S. Golden.	8.52	24.38	24.00
		Average, -----	8.32	24.69	-----
2499	J. E. PRITTS, SCOTTDALE, PA. Pritts' Cow Feed,* -----	Scottdale, J. E. Pritts, --	10.80	20.38	20-24
2779	THE QUAKER OATS CO., CHICAGO, ILL. Buckeye Feed, -----	Somerset, H. C. Beerits' Sons.	8.40	17.06	15.50
2759	Buckeye Feed, -----	Quarryville, S. Book & Bro.	9.50	16.69	15.50

*Not registered.

FEEDING STUFFS COLLECTED IN 1917.—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct. 5.30	Per ct. 4.00	Per ct. 13.10	Per ct. 12.00	\$ 2 50	Cottonseed meal, corn gluten feed, linseed oil meal, wheat middlings, corn distillers' dried grains, corn feed meal, clipped oat by-product, malt sprouts, brewers' dried grains, ground and bolted grain screenings, coconut oil meal and salt $\frac{3}{4}$ of 1%.	Cottonseed meal, corn gluten feed, linseed oil meal, wheat middlings, corn distillers' dried grains, corn feed meal, oat middlings, oat shorts, oat hulls, malt sprouts, brewers' dried grains, ground and bolted grain screenings, coconut oil and salt.	3350
5.30	-----	11.71	-----	2 64			
4.00	-----	12.80	-----	2 00	Oats, cut hay and bran,	As certified, -----	3429
6.73	5.00	9.75	14.00	2 30	Oil meal, hominy meal, cottonseed meal, buckwheat middlings, wheat bran with mill run of screenings, gluten feed, corn meal, brewers' dried grains, coconut oil meal, pea meal, corn germ meal, corn distillers' grains, ground barley, wheat middlings and salt.	As certified, -----	2907
8.33	5.00	11.92	14.00	60 00	Oil meal, hominy meal, cottonseed meal, buckwheat middlings, wheat bran with mill run of screenings, gluten feed, corn meal, brewers' dried grains, coconut oil meal, pea meal, corn germ meal, corn distillers' grains, ground barley, wheat middlings and salt.	As certified, -----	3547
7.53	-----	10.83	-----	53 00			
5.09	5-8	6.46	9.00	2 20	Wheat bran, wheat middlings, corn and cottonseed meal.	As certified, -----	2499
4.97	4.50	7.80	8.50	2 25	Wheat mixed feed with ground screenings not exceeding mill run and rye shorts.	As certified, -----	2779
4.79	4.50	8.07	8.50	42 00	Wheat mixed feed with ground screenings not exceeding mill run and rye shorts.	Wheat mixed feed with ground screenings not exceeding mill run, rye shorts and ground screenings, with trace small whole weed seeds.	2759

TABLE IV.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled at	Moisture.	Protein.	
				Found.	Guaranteed.
3267	Buckeye Feed, -----	Weissport, D. O. Christman.	Per ct. 10.71	Per ct. 16.56	Per ct. 15.50
2990	Buckeye Feed, -----	Mifflinburg, R. Foster & Son.	10.97	17.69	15.50
2613	Buckeye Feed, -----	Conshohocken, S. & J. Pugh.	8.53	17.25	15.50
2806	Buckeye Feed, -----	Loek Haven, E. E. Wentz,	8.45	16.69	15.50
		Average, -----	9.42	16.99	-----
3551	Big 2 Dairy Ration,* -----	Homer City, Thos K. George.	8.54	23.19	21.00
3576	Big 2 Dairy Ration,* -----	Zelienople, J J. Kennedy,	8.20	23.13	21.00
3440	Big 2 Dairy Ration,* -----	Hays, John Baehman, & Co.	8.58	21.38	21.00

*Not registered.

FEEDING STUFFS COLLECTED IN 1917.—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct.	Per ct.	Per ct.	Per ct.	\$			
5.22	4.50	9.22	8.50	2 35	Wheat mixed feed with ground screenings not exceeding mill run and rye shorts.	As certified, -----	3267
6.15	4.50	8.53	8.50	2 50	Wheat mixed feed with ground screenings not exceeding mill run and rye shorts.	As certified, -----	2990
4.71	4.50	7.73	8.50	2.10	Wheat mixed feed with ground screenings not exceeding mill run and rye shorts.	As certified, -----	2613
4.93	4.50	7.72	8.50	2 25	Wheat mixed feed with ground screenings not exceeding mill run and rye shorts.	Wheat mixed feed with ground screenings not exceeding mill run, rye shorts and ground grain screenings with trace small whole weed seeds.	2806
5.13	-----	8.17	-----	45 17			
7.37	6.00	11.31	10.50	3 00	Cottonseed meal, corn distillers' grains and solubles, corn gluten feed, linseed oil meal, by-product from manufacture of hominy and corn meal by degerminator process with partial extraction of oil, white middlings and wheat bran with ground screenings not exceeding mill run, oatmeal mill by-product (oat middlings, oat hulls, oat shorts), and 1% salt.	As certified, -----	3551
6.01	6.00	11.38	10.50	55 00	Cottonseed meal, corn distillers' grains and solubles, corn gluten feed, linseed oil meal, by-product from manufacture of hominy and corn meal by degerminator process with partial extraction of oil, white middlings and wheat bran with ground screenings not exceeding mill run, oatmeal mill by-product (oat middlings, oat hulls, oat shorts), and 1% salt.	As certified, -----	3576
5.24	6.00	10.10	10.50	65 00	Cottonseed meal, corn distillers' grains and solubles, corn gluten feed, linseed oil meal, by-product from manufacture of hominy and corn meal by degerminator process with partial extraction of oil, white middlings and wheat bran with ground screenings not exceeding mill run, oatmeal mill by-product (oat middlings, oat hulls, oat shorts), and 1% salt.	As certified, -----	3440

TABLE IV.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled at	Moisture.	Protein.	
				Found.	Guaranteed.
3452	Big 2 Dairy Ration,* -----	Gettysburg, J. W. McIlhenny.	Per ct. 8.57	Per ct. 22.69	Per ct. 21.00
3311	Big 2 Dairy Ration,* -----	Portage, B. N. Palmer & Co.	9.22	22.94	21.00
3402	Big 2 Dairy Ration,* -----	Clarion, A. C. Snyder & Son.	8.05	22.25	21.00
3362	Big 2 Dairy Ration,* -----	Johnstown, A. F. Stutzman & Co.	9.28	22.56	21.00

*Not registered.

FEEDING STUFFS COLLECTED IN 1917.—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct. 5.63	Per ct. 6.00	Per ct. 11.58	Per ct. 10.50	\$ 2 85	Cottonseed meal, corn distillers' grains and solubles, corn gluten feed, linseed oil meal, by-product from manufacture of hominy and corn meal by degerminator process with partial extraction of oil, white middlings and wheat bran with ground screenings not exceeding mill run, oatmeal mill by-product (oat middlings, oat hulls, oat shorts), and 1% salt.	As certified, -----	3452
5.68	6.00	10.46	10.50	52 00	Cottonseed meal, corn distillers' grains and solubles, corn gluten feed, linseed oil meal, by-product from manufacture of hominy and corn meal by degerminator process with partial extraction of oil, white middlings and wheat bran with ground screenings not exceeding mill run, oatmeal mill by-product (oat middlings, oat hulls, oat shorts), and 1% salt.	As certified, -----	3311
5.18	6.00	10.76	10.50	3 10	Cottonseed meal, corn distillers' grains and solubles, corn gluten feed, linseed oil meal, by-product from manufacture of hominy and corn meal by degerminator process with partial extraction of oil, white middlings and wheat bran with ground screenings not exceeding mill run, oatmeal mill by-product (oat middlings, oat hulls, oat shorts), and 1% salt.	As certified, -----	3403
5.48	6.00	11.27	10.50	3 00	Cottonseed meal, corn distillers' grains and solubles, corn gluten feed, linseed oil meal, by-product from manufacture of hominy and corn meal by degerminator process with partial extraction of oil, white middlings and wheat bran with ground screenings not exceeding mill run, oatmeal mill by-product (oat middlings, oat hulls, oat shorts), and 1% salt.	As certified, -----	3302

TABLE IV.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled at	Moisture.	Protein.	
				Found.	Guaranteed.
3379	Big 2 Dairy Ration,* -----	Warren, Frank Trusler, --	Per ct. 8.40	Per ct. 21.94	Per ct. 21.00
3451	Big 2 Dairy Ration,* -----	Derry, L. A. Wheeler, ---	8.77	23.13	21.00
		Average, -----	8.62	22.58	-----
3537	RALSTON PURINA CO., INC., ST. LOUIS, MO. Protena Dairy Feed, -----	West Chester, C. C. Hipple & Son.	11.80	15.22	16.50
2725	Protena Dairy Feed, -----	York, H. H. Smyser, ---	15.10	15.85	16.50
		Average, -----	13.45	15.54	-----
3512	THE SUGARINE CO., PEORIA, ILL. Suco Dairy Feed, -----	Manheim, Lancaster County Farmers' Assn.	9.10	25.00	25.00
3354	Suco Dairy Feed, -----	Chambersburg, George Walker.	7.66	27.63	25.00
		Average, -----	8.38	26.32	-----

*Not registered.

FEEDING STUFFS COLLECTED IN 1917.—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct. 6.29	Per ct. 6.00	Per ct. 10.20	Per ct. 10.50	\$ 3 00	Cottonseed meal, corn distillers' grains and solubles, corn gluten feed, linseed oil meal, by-product from manufacture of hominy and corn meal by degerminator process with partial extraction of oil, white middlings and wheat bran with ground screenings not exceeding mill run, oatmeal mill by-product (oat middlings, oat hulls, oat shorts), and 1% salt.	As certified, -----	3379
7.08	6.00	11.88	10.50	2 85	Cottonseed meal, corn distillers' grains and solubles, corn gluten feed, linseed oil meal, by-product from manufacture of hominy and corn meal by degerminator process with partial extraction of oil, white middlings and wheat bran with ground screenings not exceeding mill run, oatmeal mill by-product (oat middlings, oat hulls, oat shorts), and 1% salt.	As certified, -----	3481
6.00	-----	10.99	-----	58 67			
4.84	3.50	15.44	12.00	50 00	Cottonseed meal, brewers' dried grains, clipped oat by-product, ground wheat screenings and 1% salt.	Cottonseed meal, brewers' dried grains, oat middlings, oat hulls, oat shorts, ground wheat screenings and salt.	3537
4.01	3.50	12.44	12.00	42 00	Cottonseed meal, brewers' dried grains, clipped oat by-product, ground wheat screenings and 1% salt.	Cottonseed meal, brewers' dried grains, clipped oat by-product, ground wheat screenings, barley malt and salt.	2725
4.43	-----	13.94	-----	46 00			
5.80	3.00	13.62	14.00	58 00	Corn gluten feed, clipped oat by-product, corn distillers' dried grains and salt.	As certified, -----	3512
6.85	8.00	12.13	16.00	2 85	Corn gluten feed, clipped oat by-product, corn distillers' dried grains and solubles, cottonseed meal, palm kernel meal and salt.	As certified, -----	3354
6.33	-----	12.87	-----	57 50			

TABLE IV.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled at	Moisture.	Protein.	
				Found.	Guaranteed.
3034	THE UBIKO MILLING CO., CINCINNATI, OHIO. Union Grains-Biles Ready Dairy Ration.	New Castle City Roller Mills.	Per ct. 8.50	Per ct. 25.56	Per ct. 24.60
3016	Union Grains-Biles Ready Dairy Ration.	Palmyra, Early & Detweiler.	8.96	25.94	24.00
3374	Union Grains-Biles Ready Dairy Ration.	Kane, Kane Milling & Grocery Co.	7.50	25.94	24.00
2465	Union Grains-Biles Ready Dairy Ration.	Bedford, H. H. Lysinger,	7.21	25.63	24.00
2612	Union Grains-Biles Ready Dairy Ration.	Conshohocken, S. & J. Pugh.	7.04	25.69	24.00
2443	Union Grains-Biles Ready Dairy Ration.	McVeytown, John T. Rodgers.	7.51	24.31	24.00
3280	Union Grains-Biles Ready Dairy Ration.	Allentown, George B. Shelly Estate.	9.12	27.00	24.00

FEEDING STUFFS COLLECTED IN 1917.—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct. 5.45	Per ct. 7.00	Per ct. 10.53	Per ct. 10.00	\$ 54 00	Fourex corn distillers' dried grains, choice cottonseed meal, old process linseed meal, white wheat middlings, winter wheat bran, hominy meal, brewers' dried grains, barley malt sprouts and $\frac{1}{2}$ % of fine table salt.	As certified, -----	3034
6.55	7.00	9.70	10.00	2 65	Fourex corn distillers' dried grains, choice cottonseed meal old process linseed meal, white wheat middlings, winter wheat bran, hominy meal, brewers' dried grains, barley malt sprouts and $\frac{1}{2}$ % of fine table salt.	As certified, -----	3016
6.98	7.00	10.37	10.00	60 00	Fourex corn distillers' dried grains, choice cottonseed meal, old process linseed meal, white wheat middlings, winter wheat bran, hominy meal, gluten feed, brewers' dried grains, barley malt sprouts and $\frac{1}{2}$ % fine table salt.	As certified, -----	3374
7.91	7.00	9.57	9.00	1 90	Fourex corn distillers' dried grains, choice cottonseed meal, old process linseed meal, white wheat middlings, winter wheat bran, hominy meal, brewers' dried grains, barley malt sprouts and $\frac{1}{2}$ % of fine table salt.	As certified, -----	2435
7.25	7.00	9.70	9.00	2 25	Fourex corn distillers' dried grains, choice cottonseed meal, old process linseed meal, white wheat middlings, winter wheat bran, hominy meal, brewers' dried grains, barley malt sprouts and $\frac{1}{2}$ % of fine table salt.	As certified, -----	2612
6.16	7.00	9.86	9.00	40 00	Fourex corn distillers' dried grains, choice cottonseed meal, old process linseed meal, white wheat middlings, winter wheat bran, hominy meal, brewers' dried grains, barley malt sprouts and $\frac{1}{2}$ % of fine table salt.	As certified, -----	2443
5.64	7.00	10.12	10.00	3 00	Fourex corn distillers' dried grains, choice cottonseed meal, old process linseed meal, white wheat middlings, winter wheat bran, hominy meal, brewers' dried grains, barley malt sprouts and $\frac{1}{2}$ % fine table salt.	As certified, -----	3250

TABLE IV.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled at	Moisture.	Protein.	
				Found.	Guaranteed.
3098	Union Grains-Biles Ready Dairy Ration.	Ridgway, Smith Brothers Co.	Per ct. 8.15	Per ct. 26.44	Per ct. 24.00
2724	Union Grains-Biles Ready Dairy Ration.	York, H. H. Smyser, ---	6.52	24.75	24.00
2679	Union Grains-Biles Ready Dairy Ration.	Butler, George Walter & Sons.	7.36	25.13	24.00
3578	WESTERN GRAIN PRODUCTS CO., HAMMOND, IND. Calumet Dairy Feed, -----	Average, -----	7.78	25.64	-----
		Evans City, George Ifft & Sons.	8.50	20.19	20.00
2709	PROPRIETARY DAIRY FEEDS WITH MOLASSES. AMERICAN MILLING CO., PE- ORIA, ILL. Suerene Dairy Feed, -----	Irwin, H. Altman & Son,--	13.86	18.37	16.50
3091	Suerene Dairy Feed, -----	Berwick, T. M. Bomboy,--	13.38	19.26	16.50
3010	Suerene Dairy Feed, -----	Palmyra, John B. Curry's Sons.	12.22	19.89	16.50

FEEDING STUFFS COLLECTED IN 1917.—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct. 6.52	Per ct. 7.00	Per ct. 9.79	Per ct. 10.60	\$ 3 00	Fourex corn distillers' dried grains, choice cottonseed meal, old process linseed meal, white wheat middlings, winter wheat bran, hominy meal, gluten feed, brewers' dried grains, barley malt sprouts and $\frac{1}{2}\%$ of fine table salt.	As certified, -----	3098
7.21	7.00	9.79	9.00	46 00	Fourex corn distillers' dried grains, choice cottonseed meal, old process linseed meal, white wheat middlings, winter wheat bran, hominy meal, brewers' dried grains, barley malt sprouts and $\frac{1}{2}\%$ of fine table salt.	As certified, -----	2724
6.82	7.00	9.97	9.00	2 35	Fourex corn distillers' dried grains, choice cottonseed meal, old process linseed meal, white wheat middlings, winter wheat bran, hominy meal, brewers' dried grains, barley malt sprouts and $\frac{1}{2}\%$ of fine table salt.	As certified, -----	2679
6.65	-----	9.94	-----	50 30			
5.30	4.00	13.68	12.00	55 00	Cottonseed meal, gluten feed, brewers' dried grains, ground re-cleaned wheat screenings, ground corn, ground clipped oat by-product and salt.	As certified, -----	3578
5.79	3.50	12.49	14.00	40 00	Molasses, cotton seed meal, corn gluten feed, ground and bolted grain screenings, clipped oat by-product, distillers' dried grains and solubles and salt.	As certified, -----	2709
7.37	3.50	13.51	14.00	2 40	Molasses, cotton seed meal, corn gluten feed, ground and bolted grain screenings, clipped oat by-product, distillers' dried grains and solubles and salt.	As certified, -----	3091
5.86	3.50	13.22	14.00	2 15	Molasses, cotton seed meal, corn gluten feed, ground and bolted grain screenings, clipped oat by-product, distillers' dried grains and solubles and salt.	As certified, -----	3010

TABLE IV.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled at	Moisture.	Protein.	
				Found.	Guaranteed.
3049	Sucrene Dairy Feed, -----	Ellwood City, W. W. Davison & Son,	Per ct. 11.18	Per ct. 20.78	Per ct. 16.50
3342	Sucrene Dairy Feed, -----	Philadelphia. Ezl. Dunwoody Co.	12.00	19.44	16.50
2772	Sucrene Dairy Feed, -----	Somerset, John G. Emert,	14.59	15.98	16.50
3286	Sucrene Dairy Feed, -----	Monongahela, D. E. Gamble,	11.70	18.96	16.50
3368	Sucrene Dairy Feed, -----	Williamson, J. D. Goldsmith,	8.71	20.31	16.50
2458	Sucrene Dairy Feed, -----	Huntingdon, L. S. Goodman & Son,	10.07	19.06	16.50
3538	Sucrene Dairy Feed, -----	West Chester, C. C. Hipple & Son,	11.04	17.08	16.50
2751	Sucrene Dairy Feed, -----	Hanover, George Hull & Sons,	9.08	21.69	16.50
3575	Sucrene Dairy Feed, -----	Zelienople, J. J. Kennedy,	9.04	18.25	16.60

FEEDING STUFFS COLLECTED IN 1917.—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct. 6.86	Per ct. 3.50	Per ct. 12.76	Per ct. 14.00	\$ 2 45	Molasses, cotton seed meal, corn gluten feed, ground and bolted grain screenings, clipped oat by-product, distillers' dried grains and solubles and salt.	As certified, -----	3049
4.59	3.50	13.32	14.00	46 00	Molasses, cotton seed meal, corn gluten feed, ground and bolted grain screenings, clipped oat by-product, distillers' dried grains and solubles and salt.	As certified, -----	3342
5.66	3.50	13.29	12.00	1 75	Molasses, cotton seed meal, corn gluten feed, ground and bolted screenings, clipped oat by-product, corn distillers' dried grains and salt.	Molasses, cottonseed meal, corn gluten feed, ground and bolted grain screenings, clipped oat by-product, corn distillers' dried grains, salt and small amount small whole weed seeds.	2772
4.63	3.50	16.41	14.00	2 25	Molasses, cotton seed meal, corn gluten feed, ground and bolted grain screenings, clipped oat by-product, distillers' dried grains and solubles and salt.	As certified, -----	3286
4.61	3.50	15.72	14.00	2 25	Molasses, cotton seed meal, corn gluten feed, ground and bolted grain screenings, clipped oat by-product, distillers' dried grains and solubles and salt.	As certified, -----	3368
6.20	3.50	14.29	12.00	1 50	Molasses, cotton seed meal, corn gluten feed, ground and bolted grain screenings, clipped oat by-product, corn distillers' dried grains and salt.	As certified, -----	2458
4.12	2.50	15.42	14.00	50 00	Molasses, cotton seed meal, corn gluten feed, ground and bolted grain screenings, clipped oat by-product, distillers' dried grains and solubles and salt.	As certified, -----	3538
7.49	3.50	12.67	14.00	2 00	Molasses, cotton seed meal, corn gluten feed, ground and bolted grain screenings, clipped oat by-product, distillers' dried grains and solubles and salt.	Molasses, cottonseed meal, corn gluten feed, ground and bolted grain screenings, clipped oat by-product, distillers' dried grains and solubles, salt and small amount small whole weed seeds.	2751
4.46	3.50	14.59	14.00	48 00	Molasses, cotton seed meal, corn gluten feed, ground and bolted grain screenings, clipped oat by-product, distillers' dried grains and solubles and salt.	As certified, -----	3575

TABLE IV.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled at	Moisture.	Protein.	
				Found.	Guaranteed.
3295	Sucrene Dairy Feed, -----	Clearfield, Lauderbach-Zerby Co.,	Per ct. 12.01	Per ct. 18.79	Per ct. 16.50
3483	Sucreen Dairy Feed, -----	Ligonier, Ligonier Flouring Mills.	9.00	17.91	16.50
3210	Sucrene Dairy Feed, -----	Mifflersville, The Lytle Store Co.	13.70	20.03	16.50
3446	Sucrene Dairy Feed, -----	Gettysburg, J. W. Mellhenny.	10.49	20.11	16.50
2477	Sucrene Dairy Feed, -----	Connellsville, Perry & Henderson.	13.55	16.86	16.50
3560	Sucrene Dairy Feed, -----	Indiana, St. Clair, Rinn & Co.	8.18	20.00	16.50
2833	Sucrene Dairy Feed, -----	Carlisle, W. S. Stuart, ---	14.13	19.58	16.50
2792	Sucrene Dairy Feed, -----	Gap, Jos. C. Walker & Sons Co.	8.65	21.31	16.50
2657	Sucrene Dairy Feed, -----	Reading, F. S. Wertz & Son.	8.33	17.25	16.50
		Average, -----	11.18	19.09	-----

FEEDING STUFFS COLLECTED IN 1917.—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct. 4.33	Per ct. 3.50	Per ct. 18.60	Per ct. 14.00	\$ 56 00	Molasses, cotton seed meal, corn gluten feed, ground and bolted grain screenings, clipped oat by-product, distillers' dried grains and solubles and salt.	Molasses, cottonseed meal, ground and bolted grain screenings, clipped oat by-product, distillers' dried grains and solubles and salt.	3295
3.80	3.50	13.32	14.00	2 40	Molasses, cotton seed meal, corn gluten feed, ground and bolted grain screenings, clipped oat by-product, distillers' dried grains and solubles and salt.	As certified, -----	3483
5.29	3.50	12.70	14.00	2.50	Molasses, cotton seed meal, corn gluten feed, ground and bolted grain screenings, clipped oat by-product, distillers' dried grains and solubles and salt.	As certified, -----	3210
4.61	3.50	16.11	14.00	44 00	Molasses, cotton seed meal, corn gluten feed, ground and bolted grain screenings, clipped oat by-product, distillers' dried grains and solubles and salt.	As certified, -----	3446
6.54	3.50	13.77	12.00	1 75	Molasses, cotton seed meal, corn gluten feed, ground and bolted grain screenings, clipped oat by-product, corn distillers' dried grains and salt.	As certified, -----	2477
5.06	3.50	14.89	14.00	2 50	Molasses, cotton seed meal, corn gluten feed, ground and bolted grain screenings, clipped oat by-product, distillers' dried grains and solubles, palm kernel meal, calcium carbonate and salt.	As certified, -----	3560
6.53	3.50	12.52	14.00	38 00	Molasses, cotton seed meal, corn gluten feed, ground and bolted grain screenings, clipped oat by-product, distillers' dried grains and solubles and salt.	As certified, -----	2833
6.59	3.50	13.07	14.00	2 10	Molasses, cotton seed meal, corn gluten feed, ground and bolted grain screenings, clipped oat by-product, distillers' dried grains and solubles and salt.	As certified, -----	2792
6.61	3.50	14.22	12.00	1.73	Molasses, cotton seed meal, corn gluten feed, ground and bolted grain screenings, clipped oat by-product, corn distillers' dried grains and salt.	As certified, -----	2657
5.57	-----	14.10	-----	43 65			

TABLE IV.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled at	Moisture.	Protein.	
				Found.	Guaranteed.
2538	ARCADY FARMS MILLING CO., CHICAGO, ILL. Arcady Dairy Feed, -----	Swatara, J. B. Curry Est.,	Per ct. 11.49	Per ct. 15.94	Per ct. 16.00
2782	Arcady Dairy Feed, -----	Lititz, Elmer Eby, -----	13.17	14.78	16.00
2586	THE BUCKEYE CEREAL CO., MASSILLON, OHIO. Bar-X Dairy Feed, -----	Average, ----- Kittanning, D. H. Borats,	12.33 13.30	15.36 12.25	----- 16-17
2814	CHAPIN & CO., HAMMOND, IND. Lactola Dairy Feed, -----	Mill Hall, Continental Con- densed Milk Co.	12.67	17.02	16.50
2639	Lactola Dairy Feed, -----	Beaver, A. F. Grine, -----	12.42	18.04	16.50
3307	Lactola Dairy Feed, -----	Ebensburg, Veith Brothers,	11.97	18.79	16.50
2995	CLOVER LEAF MILLING CO., BUFFALO, N. Y. Clover Leaf Mills Dairy Feed, -----	Average, ----- Centre Hall, Bradford & Son,	12.35 13.74	17.95 15.18	----- 13.50

FEEDING STUFFS COLLECTED IN 1917.—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct.	Per ct.	Per ct.	Per ct.	\$			
4.07	3.50	12.97	15.00	1 70	Malt sprouts, dried brewers' grains, cottonseed meal, molasses, ground and bolted clipped oat by-product, cleaned, ground and bolted grain screenings, salt and corn gluten.	Malt sprouts, dried brewers' grains, cottonseed meal, molasses, ground and bolted clipped oat by-product, cleaned, ground and bolted grain screenings, salt, corn gluten and small amount small whole weed seeds.	2538
4.79	3.50	15.36	15.00	2 00	Malt sprouts, dried brewers' grains, cottonseed meal, molasses, ground and bolted clipped oat by-product, cleaned, ground and bolted grain screenings, salt and corn gluten.	As certified, -----	2782
4.43	-----	14.16	-----	1 85			
3.95	3-4	11.71	15-17	1 75	Cottonseed meal, distillers' dried grains, grain screenings, malt sprouts, salt and molasses.	Cottonseed meal, distillers' dried grains, grain screenings, malt sprouts, salt, molasses and small amount small whole weed seeds.	2586
4.82	3.00	10.09	12.00	39 00	Choice cottonseed meal, corn distillers' grains, clipped oat by-product, corn gluten feed, corn germ meal, brewers' grains, ivory nut meal, cane molasses and salt.	As certified, -----	2814
5.25	3.00	10.30	12.00	2.05	Choice cottonseed meal, corn distillers' grains, clipped oat by-product, corn gluten feed, corn germ meal, brewers' grains, ivory nut meal, cane molasses and salt.	As certified, -----	2630
4.86	3.00	11.66	12.00	2.75	Choice cottonseed meal, corn distillers' grains, clipped oat by-product, corn gluten feed, corn germ meal, brewers' grains, ivory nut meal, cane molasses and salt.	Choice cottonseed meal, corn distillers' grains, clipped oat by-product, corn gluten feed, corn germ meal, brewers' dried grains, ivory nut meal, molasses, malt sprouts and salt.	3307
4.98	-----	10.68	-----	45 00			
3.98	3.50	17.29	15.00	2 10	Cottonseed meal, corn distillers' dried grains, mixed broken grains consisting of wheat, corn, barley, flax, spelt, ground grain screenings, cocoa shell meal, clipped oat by-product, molasses and 1/2 of 1% salt.	As certified, -----	2995

TABLE IV.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled at	Moisture.	Protein.	
				Found.	Guaranteed.
3500	Clover Leaf Mills Dairy Feed, -----	Lancaster, John W. Eshelman.	Per ct. 12.14	Per ct. 13.65	Per ct. 13.50
3076	Clover Leaf Mills Dairy Feed, -----	Bloomsburg, R. R. Ikeler,	15.02	12.10	13.50
2898	Clover Leaf Mills Dairy Feed, -----	Pottstown, A. K. Kulp, --	7.33	14.22	13.50
3306	Clover Leaf Mills Dairy Feed, -----	Ebensburg, Veith Bros., -	11.48	14.81	13.50
		Average, -----	11.94	13.99	-----
3501	Clover Leaf Mills Dairy Ration, ----	Lancaster, John W. Eshelman.	9.96	18.19	16.50
2624	DIXIE MILLS CO., EAST ST. LOUIS, ILL. Dixie Dairy Feed, -----	Beaver Falls, M. W. McCandless.	15.59	16.30	16.50
2670	Dixie Dairy Feed, -----	Butler, Thompson & Glenn.	14.70	15.24	16.50
2682	Dixie Dairy Feed, -----	Butler, George Walter & Sons.	13.20	15.94	16.50
		Average, -----	14.49	15.83	-----

FEEDING STUFFS COLLECTED IN 1917.—Continued.

Fat.		Fiber.		Price per ton or ewt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct. 3.90	Per ct. 3.50	Per ct. 15.92	Per ct. 15.00	\$ 43 50	Cottonseed meal, eorn distillers' dried grains, mixed broken grains consisting of wheat, corn, barley, flax, spelt, ground grain screenings, cocoashell meal, clipped oat by-product, molasses and $\frac{1}{2}$ of 1% salt.	As certified, -----	3500
3.94	3.50	17.33	15.00	2 25	Cottonseed meal, eorn distillers' dried grains, mixed broken grains consisting of wheat, corn, barley, flax, spelt, ground grain screenings, cocoashell meal, clipped oat by-product, molasses and $\frac{1}{2}$ of 1% salt.	Cottonseed meal, mixed broken grains consisting of wheat, corn, barley, flax, spelt, ground grain screenings, cocoashell meal, clipped oat by-product, molasses, salt and small amount whole weed seeds.	3076
3.50	3.50	15.77	15.00	1.70	Cottonseed meal, eorn distillers' dried grains, mixed broken grains consisting of wheat, corn, barley, flax, spelt, ground grain screenings, cocoashell meal, clipped oat by-product, molasses and $\frac{1}{2}$ of 1% salt.	Cottonseed meal, eorn distillers' dried grains, mixed broken grains consisting of wheat, corn, barley, flax, spelt, ground grain screenings, cocoashell meal, clipped oat by-product, molasses, salt and trace small whole weed seeds.	2898
2.82	3.50	15.84	15.00	2 25	Cottonseed meal, eorn distillers' dried grains, mixed broken grains consisting of corn, barley, flax, spelt, ground grain screenings, cocoashell meal, clipped oat by-product, molasses and $\frac{1}{2}$ of 1% of salt.	Cottonseed meal, eorn distillers' dried grains, mixed broken grains consisting of corn, barley, flax, spelt, ground grain screenings, cocoashell meal, clipped oat by-product, molasses, salt and trace small whole weed seeds.	3306
3.63	-----	16.43	-----	41.90			
5.64	3.50	14.42	15.00	46 00	Corn distillers' dried grains, cottonseed meal, mixed broken grains consisting of wheat, corn, barley, flax, spelt, ground grain screenings, cocoashell meal, clipped oat by-product, molasses and $\frac{1}{2}$ of 1% salt.	As certified, -----	3501
3.52	3.50	13.76	12.00	2 25	Cottonseed meal, alfalfa meal, corn feed meal, ground cleaned screenings and cane molasses.	As certified, -----	2624
3.47	3.50	14.59	12.00	2 20	Cottonseed meal, alfalfa meal, corn feed meal, ground flaxseed screenings and cane molasses.	As certified, -----	2670
3.67	3.50	15.26	12.00	2 20	Cottonseed meal, alfalfa meal, corn feed meal, ground flaxseed screenings and cane molasses.	As certified, -----	2682
3.55	-----	14.53	-----	2 22			

TABLE IV.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled at	Moisture,	Protein.	
				Found.	Guaranteed.
2916	GLOBE ELEVATOR CO., BUFFALO, N. Y. Anchor Dairy Feed, -----	Punxsutawney, Keystone Flour & Feed Co.	Per ct. 14.41	Per ct. 12.19	Per ct. 13.5-15
3053	GOLDEN GRAIN MILLING CO., EAST ST. LOUIS, ILL. Golden Grain Dairy Feed, -----	Washington, C. B. Ruch,	15.17	12.86	12.00
2976	THE GOLDSBORO PURE FEED CO., GOLDSBORO, PA. Gold-O Cane Molasses Dairy Feed, ----	Goldsboro, The Goldsboro Pure Feed Co.	9.46	28.44	20.00
2977	June Bug Cane Molasses Dairy Feed,	Goldsboro, The Goldsboro Pure Feed Co.	9.00	19.44	18.00
3492	HALES & EDWARDS CO., CHICAGO, ILL. Gold Flake Dairy Feed, -----	Jeannette, Keystone Supply Co.	12.48	18.04	16.00
2636	DWIGHT E. HAMLIN, PITTSBURGH, PA. H. & S. Alfalfa Feed for Milch Cows.	Beaver, A. F. Grine, ----	13.35	21.80	20-25
2674	H. & S. Alfalfa Feed for Milch Cows.	Butler, P. J. Oesterling & Son.	9.97	22.92	20 25
		Average, -----	11.66	22.36	-----
2527	THE H-O COMPANY, BUFFALO, N. Y. The H-O Co.'s Milk Feed with Molasses.	Bradford, C. L. Douglas, -	7.73	13.69	14.00

FEEDING STUFFS COLLECTED IN 1917.—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct. 2.90	Per ct. 3.00	Per ct. 11.36	Per ct. 15.00	\$ 2 65	Cottonseed meal, corn gluten feed, linseed oil meal, malt sprouts, ground grain screenings, molasses and salt $\frac{3}{4}$ of 1%.	As certified, -----	2916
2.36	3.00	16.80	18.00	2 65	Alfalfa meal, brewers' grains, oat clippings, cottonseed meal, molasses and $\frac{1}{2}$ of 1% salt.	Alfalfa meal, brewers' dried grains, oat clippings, cotton seed meal, molasses, salt and trace small whole weed seeds.	3053
5.31	6.00	16.15	12.00	2 10	Brewers' grains, ground grain screenings meal, wheat middlings, oil meal, wheat bran, corn bran, corn flakes, oat clippings, cottonseed meal, gluten, pure cane molasses and $\frac{1}{2}$ of 1% per cent. salt.	As certified, -----	2976
5.46	4.00	19.98	12.00	1 95	Brewers' grains, malt sprouts, ground grain screenings meal, wheat middlings, oil meal, wheat bran, oat clippings, cottonseed meal, gluten, pure cane molasses and $\frac{1}{2}$ of 1% salt.	Brewers' dried grains, malt sprouts, ground grain screenings meal, wheat middlings, oil meal, wheat bran, oat clippings, cottonseed meal, gluten feed, pure cane molasses, salt and small amount small whole weed seeds.	2977
3.25	3.50	12.33	15.00	55 00	Cottonseed meal, corn gluten feed, linseed oil meal, molasses, clipped oat by-product, ground and bolted wheat, barley and Kaffir screenings and salt.	As certified, -----	3492
5.55	3.50	12.11	16.00	2.20	Alfalfa, cottonseed meal, pure cane molasses, brewers' and distillers' dried grains and $\frac{1}{2}$ of 1% salt.	As certified, -----	2636
5.34	3.50	11.33	16.00	2 30	Alfalfa, cottonseed meal, pure cane molasses, brewers' and distillers' dried grains and $\frac{1}{2}$ of 1% salt.	As certified, -----	2674
5.45	-----	11.72	-----	2.25			
3.42	4.00	13.42	12.00	2.10	Wheat middlings, cottonseed meal, oat shorts, corn gluten feed, ground corn, ground oats, ground grain screenings, molasses and $\frac{1}{2}$ of 1% salt.	Wheat middlings, cottonseed meal, oat shorts, corn gluten feed, ground corn, ground oats, ground grain screenings, molasses, salt and small amount small whole weed seeds.	2527

TABLE IV.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled at	Moisture.	Protein.	
				Found.	Guaranteed.
3158	W. S. HOGE & BROTHER, WASHINGTON, D. C. Hoge's Milk Maker Dairy Feed, ----	Millerstown, A. H. Ulsh,--	Per ct. 14.37	Per ct. 16.36	Per ct. 13.50
2672	INTERNATIONAL SUGAR FEED CO., MINNEAPOLIS, MINN. International Cattle Feed, -----	Butler, P. J. Oesterling & Son.	13.75	23.90	25.00
3059	International Cattle Feed, -----	Waynesburg, Waynesburg Milling Co.	12.93	24.84	25.00
		Average, -----	13.34	24.37	-----
2452	International Climax Dairy Feed, ----	Huntingdon, Huntingdon Milling Co.	12.11	12.80	12.50
2827	International Special Dairy Feed, ----	Mechanicsburg, A. B. Har-nish.	13.75	14.86	15.00
2450	International Special Dairy Feed, ----	Huntingdon, Huntingdon Milling Co.	12.89	14.65	15.00
3106	International Special Dairy Feed, ----	St. Marys, Jacob & Keller Co.	13.47	15.49	15.00
2671	International Special Dairy Feed, ----	Butler, P. J. Oesterling & son.	14.68	15.60	15.00
3237	International Special Dairy Feed, ----	Farrell, J. B. Roux, ----	12.62	14.61	15.00

FEEDING STUFFS COLLECTED IN 1917.—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct.	Per ct.	Per ct.	Per ct.				
3.87	4.00	15.80	15.00	12 25	Cottonseed meal, corn gluten feed, mixed broken grains consisting of wheat, corn, barley, flax, spelt, ground grain screenings, cocoashell meal, clipped oat by-product, molasses and $\frac{1}{2}$ of 1% salt.	As certified, -----	3158
6.63	5.00	13.02	10.00	2 30	Cottonseed meal, old process linseed oil meal, molasses, grain middlings and salt.	Cottonseed meal, old process linseed oil meal, molasses, ground grain screenings and salt.	2672
5.78	5.00	12.60	10.00	2.25	Cottonseed meal, old process linseed oil meal, molasses, grain screenings and salt.	Cottonseed meal, old process linseed oil meal molasses, grain screenings, cottonseed hulls and salt.	3059
6.21	-----	12.81	-----	2 28			
5.97	4.00	12.24	12.00	38 00	Cottonseed meal, molasses, ground clipped oat by-product, salt and ground cleaned grain screenings.	Cottonseed meal, molasses, ground clipped oat by-product, salt, ground cleaned grain screenings and small amount small whole weed seeds.	2452
5.16	4.50	13.87	12.00	1 90	Cottonseed meal, molasses, ground clipped oat by-product, salt and ground cleaned grain screenings.	Cottonseed meal, molasses, ground clipped oat by-product, salt, ground cleaned grain screenings and small amount small whole weed seeds.	2827
5.40	4.50	13.03	12.00	1 60	Cottonseed meal, molasses, ground clipped oat by-product, salt and ground cleaned grain screenings.	Cottonseed meal, molasses, ground clipped oat by-product, salt, ground cleaned grain screenings and small amount small whole weed seeds.	2450
7.03	4.50	13.64	12.00	2.10	Cottonseed meal, molasses, ground clipped oat by-product, salt and ground cleaned grain screenings.	Cottonseed meal, molasses, ground clipped oat by-product, salt, ground cleaned grain screenings and small amount small whole weed seeds.	3106
4.62	4.50	17.12	12.00	2 00	Cottonseed meal, molasses, ground clipped oat by-product, salt and ground cleaned grain screenings.	Cottonseed meal, molasses, ground clipped oat by-product, salt, ground cleaned grain screenings and small amount small whole weed seeds.	2671
3.11	4.50	18.72	12.00	45 00	Cottonseed meal, molasses, ground clipped oat by-product, salt and ground cleaned grain screenings.	As certified, -----	3237

TABLE IV.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled at	Moisture.	Protein.	
				Found.	Guaranteed.
2058	International Special Dairy Feed, ----	Waynesburg, Waynesburg Milling Co.	Per ct. 15.78	Per ct. 15.75	Per ct. 15.00
		Average, -----	13.86	15.16	-----
2618	CHARLES A. KRAUSE MILLING CO., MILWAUKEE, WIS. Badger Dairy Feed, -----	Florin, J. N. Hershey, ---	13.56	15.78	16.00
2762	Badger Dairy Feed, -----	Quarryville, Quarryville Farmers' Assn.	11.66	16.08	16.00
		Average, -----	12.61	15.93	-----
3565	THE LAKE SHORE ELEVATOR CO., CLEVELAND, OHIO. Hart's Special Dairy Food, -----	Zellenople, J. J. Kennedy,	11.29	10.56	24.00
3586	Lake Shore Dairy Food, -----	Harmony, Harmony Cereal Mills.	14.26	10.13	17.00
3569	Lake Shore Dairy Food, -----	Zellenople, J. J. Kennedy,	13.49	9.69	17.00
		Average, -----	13.87	9.91	-----
3462	THE MT. HOLLY FEED & GRAIN CO., MT. HOLLY SPRINGS, PA. Holly-O Pure Cane Molasses Dairy Feed.*	Gettysburg, C. M. Wolf, -	6.46	20.56	20.00
	NEWARK MILLING CORPORATION, BUFFALO, N. Y.				
2740	Domino Butterine Dairy Feed, -----	York, Anderson Bros. & Co.	12.50	19.76	17.00

*Not registered.

FEEDING STUFFS COLLECTED IN 1917.—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct. 4.22	Per ct. 4.50	Per ct. 14.79	Per ct. 14.00	\$ 1 60	Cottonseed meal, molasses, ground clipped oat by-product, salt and ground cleaned grain screenings.	As certified, -----	3058
4.92	-----	15.19	-----	38 17			
2.86	3.00	13.95	15.00	35 00	Cottonseed meal, malt sprouts, alfalfa meal, ground and bolted screenings from wheat, oats and flax, $\frac{1}{4}$ of 1% salt and molasses.	Cottonseed meal, malt sprouts, alfalfa meal, ground and bolted screenings, from wheat, oats and flax, salt, molasses and small amount small whole weed seeds.	2618
5.41	3.00	13.11	15.00	38 00	Cottonseed meal, malt sprouts, alfalfa meal, ground and bolted screenings from wheat, oats and flax, $\frac{1}{4}$ of 1% salt and molasses.	Cottonseed meal, malt sprouts, alfalfa meal, ground and bolted screenings, from wheat, oats and flax, salt, molasses and small amount small whole weed seeds.	2762
4.64	-----	13.53	-----	36 50			
3.18	4.50	18.80	9.00	55 00	Cottonseed meal, brewers' grains, malt sprouts, corn bran, molasses and $\frac{1}{2}$ of 1% salt.	Cottonseed meal, brewers' dried grains, malt sprouts, corn bran, molasses, oats, cocoashell meal, buckwheat hulls and salt.	3565
2.43	3.00	20.99	11.00	2 50	Cottonseed meal, distillers' grains, malt sprouts, corn, corn bran screenings, molasses and $\frac{1}{2}$ of 1% salt.	Cottonseed meal, distillers' grains, malt sprouts, corn, corn bran screenings, molasses, oats, cocoa-shell meal and salt.	3586
3.28	3.00	19.90	11.00	48 00	Cottonseed meal, distillers' grains, malt sprouts, corn, corn bran screenings, molasses and $\frac{1}{2}$ of 1% salt.	Cottonseed meal, brewers' grains, malt sprouts, corn, corn bran screenings, molasses, oats, cocoashell meal, buckwheat hulls and salt.	3569
2.86	-----	20.44	-----	49 00			
5.96	4.50	16.70	14.00	2 65	Brewers' grains, malt sprouts, dried yeast grains, corn meal, wheat middlings, wheat bran, cottonseed meal, gluten feed, pure cane molasses and $\frac{1}{2}$ of 1% salt.	As certified, -----	3462
4 68	3.50	6.95	12.00	2 10	Cocoanut oil meal, cottonseed meal, malt sprouts, brewers' dried grains, clipped oat by-product, ground and bolted grain screenings, molasses and $\frac{1}{4}$ of 1% salt.	Cocoanut oil meal, cottonseed meal, malt sprouts, brewers' dried grains, clipped oat by-product, ground and bolted grain screenings, molasses, salt and large number small whole weed seeds.	2740

TABLE IV.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled at	Moisture.	Protein.	
				Found.	Guaranteed.
3130	Domino Butterine Dairy Feed, -----	Montgomery, C. L. Her- rold.	Per ct. 13.42	Per ct. 17.77	Per ct. 17.00
2717	Domino Butterine Dairy Feed, -----	York, F. Loucks & Son,	13.56	18.26	17.00
2621	Domino Butterine Dairy Feed, -----	Elizabethtown, Muth Brothers.	14.06	15.45	17.00
3351	Domino Butterine Dairy Feed, -----	Chambersburg, J. H. Smith & Sons.	13.79	21.45	17.00
	OMAHA ALFALFA MILLING CO., OMAHA, NEBR.	Average, -----	13.46	18.54	-----
2476	Greene Meadow Dairy Feed, -----	Connellsville, Perry & Henderson.	12.95	13.02	11.00
2712	Green Meadow Dairy Feed, -----	New Stanton, James F. Stanton & Sons.	11.87	13.78	11.00
3343	Green Meadow Dairy Feed, -----	Philadelphia, W. S. Wood- ward & Co.	19.35	10.82	11.00
	THE QUAKER OATS CO., CHI- CAGO, ILL.	Average, -----	14.72	12.54	-----
2988	Bule Ribbon Dairy Feed,* -----	Mifflinburg, R. Foster & Son.	14.28	24.82	25.00

*Not registered.

FEEDING STUFFS COLLECTED IN 1917.—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct. 3.87	Per ct. 3.50	Per ct. 10.05	Per ct. 12.00	\$ 12 40	Cocoanut oil meal, cottonseed meal, malt sprouts, brewers' dried grains, clipped oat by-product, ground and bolted grain screenings, molasses and $\frac{1}{2}$ of 1% salt.	Cocoanut oil meal, cottonseed meal, malt sprouts, brewers' dried grains, clipped oat by-product, ground and bolted grain screenings, molasses, salt and small amount small whole weed seeds.	3130
3.89	3.50	10.11	12.00	2 10	Cocoanut oil meal, cottonseed meal, malt sprouts, brewers' dried grains, clipped oat by-product, ground and bolted grain screenings, molasses and $\frac{1}{2}$ of 1% salt.	Cottonseed meal, malt sprouts, brewers' dried grains, clipped oat by-product, ground and bolted grain screenings, molasses, salt, wheat bran and small amount whole weed seeds.	2717
3.80	3.50	11.61	12.00	38 00	Cocoanut oil meal, cottonseed meal, malt sprouts, brewers' dried grains, clipped oat by-product, ground and bolted grain screenings, molasses and $\frac{1}{2}$ of 1% salt.	Cottonseed meal, malt sprouts, brewers' dried grains, clipped oat by-product, ground and bolted grain screenings, molasses, salt and wheat bran.	2621
3.38	3.50	13.41	12.00	2 35	Cocoanut oil meal, cottonseed meal, malt sprouts, brewers' dried grains, clipped oat by-product, ground and bolted grain screenings, molasses and $\frac{1}{2}$ of 1% salt.	Cocoanut oil meal, cottonseed meal, malt sprouts, brewers' dried grains, clipped oat by-product, ground and bolted grain screenings, molasses, salt and small amount small whole weed seeds.	3351
3.92	-----	10.42	-----	43 40			
2.29	1.00	17.95	25.00	1 85	Alfalfa meal and syrup,	As certified, -----	2476
0.96	1.00	17.13	25.00	2 00	Alfalfa meal and syrup,	As certified, -----	2712
0.93	1.00	18.45	25.00	2 20	Alfalfa meal and syrup,	As certified, -----	3343
1.39	-----	17.84	-----	2 02			
6.60	5.06	11.72	14.00	2 40	Hominy feed, corn feed meal, by-product from manufacture of hominy and corn meal, by deguminator process with partial extraction of oil, cottonseed meal, wheat bran with ground screenings not exceeding mill run, oat meal mill by-product (oat middlings, oat hulls, oat shorts), molasses, new process linseed meal, dried distillers' grains and $\frac{1}{2}$ of 1% salt.	As certified, -----	2988

TABLE IV.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled at	Moisture.	Protein.	
				Found.	Guaranteed.
3582	Blue Ribbon Dairy Feed,* -----	Evans City, Gelbach & Behm.	Per ct. 12.52	Per ct. 21.06	Per ct. 25.00
		Average, -----	13.40	22.94	-----
2869	Quaker Dairy Feed with Molasses,* ---	Braddock, Braddock Feed & Supply House.	13.40	16.33	16.00
2989	Quaker Dairy Feed with Molasses,* ---	Mifflinburg, R. Foster & Son.	13.91	16.68	16.00
3289	Quaker Dairy Feed with Molasses,* ---	Monongahela, James B. Hayward & Son.	11.95	16.08	16.00
3524	Quaker Dairy Feed with Molasses,* ---	Blairsville, George J. New,	8.46	16.53	16.00
3052	Quaker Dairy Feed with Molasses,* ---	Washington, C. B. Ruch, -	14.02	16.03	16.00
		Average, -----	12.34	16.33	-----
	RALSTON PURINA CO., INC., ST. LOUIS, MO.				
3527	Good Luck Dairy Feed, -----	Paoli, Edward F. Braeken,	11.83	11.72	13.50

*Not registered.

FEEDING STUFFS COLLECTED IN 1917.—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct.	Per ct.	Per ct.	Per ct.	\$			
5.63	5.00	13.48	14.00	3.00	Hominay feed, corn feed meal, by-product from manufacture of hominy and corn meal by degerminator process partial extraction of cottonseed meal, wheat bran with ground screenings not exceeding mill run, oat meal mill by-product (oat middlings, oat hulls, oat shorts), molasses, new process linseed oil corn distillers' grains and $\frac{1}{2}$ of 1% salt.	As certified, -----	3582
6.12	-----	12.60	-----	2 70			
6.14	5.50	13.88	16.00	2 10	Molasses, corn distillers' grains, cottonseed meal, ground grain screenings, oat meal mill by-product (oat middlings, oat hulls, oat shorts) and $\frac{1}{2}$ of 1% salt.	Molasses, corn distillers' grains, cottonseed meal, ground grain screenings, oat middlings, oat hulls, oat shorts, salt and small amount small whole weed seeds..	2869
5.29	5.50	15.48	16.00	40 00	Molasses, corn distillers' grains, cottonseed meal, ground grain screenings, oat meal mill by-product (oat middlings, oat hulls, oat shorts) and $\frac{1}{2}$ of 1% salt.	As certified, -----	2989
6.02	5.50	15.95	16.00	2 60	Molasses, corn distillers' grains, cottonseed meal, ground grain screenings, oat meal mill by-product (oat middlings, oat hulls, oat shorts) and $\frac{1}{2}$ of 1% salt.	As certified, -----	3289
7.87	5.50	16.59	16.00	50 00	Molasses, corn distillers' grains, cottonseed meal, ground grain screenings, oat meal mill by-product (oat middlings, oat hulls, oat shorts) and $\frac{1}{2}$ of 1% salt.	Molasses, corn distillers' grains, cottonseed meal, ground grain screenings, oat middlings, oat hulls, oat shorts, salt and trace small whole weeds.	3524
5.02	5.50	15.15	16.00	2 50	Molasses, corn distillers' grains, cottonseed meal, ground grain screenings, oat meal mill by-product (oat middlings, oat hulls, oat shorts) and $\frac{1}{2}$ of 1% salt.	Molasses, corn distillers' grains, cottonseed meal, ground grain screenings, oat middlings, oat hulls, oat shorts, salt and small amount small whole weed seeds.	3052
6.07	-----	15.41	-----	46 80			
4.16	3.50	17.71	13.00	48 00	Cottonseed meal, brewers' dried grains, clipped oat by-product, ground wheat screenings, molasses and 1% salt.	Cottonseed meal, brewers' dried grains, oat middlings, oat hulls, oat shorts, ground wheat screenings, molasses and salt.	3527

TABLE IV.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled at	Moisture.	Protein.	
				Found.	Guaranteed.
2608	Good Luck Dairy Feed, -----	Norristown, W. C. Duffield.	Per ct. 14.78	Per ct. 12.51	Per ct. 13.50
		Average, -----	13.30	12.12	-----
3315	Purina Cow Chow Feed, -----	Cresson, E. D. Fry, -----	12.59	25.52	24.00
3305	Purina Cow Chow Feed, -----	Johnstown, A. F. Stutzman & Co.	10.53	25.50	24.00
2992	Purina Cow Chow Feed, -----	Mifflinburg, Union Hardware Co.	12.60	27.28	24.00
		Average, -----	11.90	26.10	-----
2780	Purina Dairy Feed, -----	Somerset, H. C. Beerits' Sons.	14.76	20.37	20.00
3100	Purina Dairy Feed, -----	Selinsgrove, Luther Bolig,	14.38	19.80	20.00
3536	Purina Dairy Feed, -----	Paoli, Edward F. Bracken,	13.46	21.15	20.00
3121	Purina Dairy Feed, -----	Milton, W. E. Custer, ---	16.81	22.68	20.00
3314	Purina Dairy Feed, -----	Cresson, E. D. Fry, -----	13.01	21.87	20.00
2576	Purina Dairy Feed, -----	Kittanning, Wm. Gates Est.	13.19	20.00	20.00
2845	Purina Dairy Feed, -----	Titusville, Kerr Mill Milling Co., Ltd.	12.83	20.29	20.00
2651	Purina Dairy Feed, -----	Phoenixville, W. H. Lenhard.	12.24	20.84	20.00
3486	Purina Dairy Feed, -----	Ligonier, Ligonier Flouring Mills.	10.79	21.73	20.00

FEEDING STUFFS COLLECTED IN 1917.—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct. 3.76	Per ct. 3.50	Per ct. 13.51	Per ct. 13.00	\$ 1 90	Cottonseed meal, brewers' dried grains, ground clipped oat by-product, ground wheat screenings, molasses and 1% salt.	Cottonseed meal, brewers' dried grains, ground clipped oat by-product, ground wheat screenings, molasses, salt and small amount small whole weed seeds.	2608
3.96	-----	15.61	-----	43 00			
4.30	4.50	15.13	13.50	2 75	Cottonseed meal, brewers' dried grains, gluten feed from corn, molasses, ground alfalfa and 1% salt.	As certified, -----	3315
3.62	4.75	14.12	13.50	3 00	Cottonseed meal, brewers' dried grains, gluten feed from corn, molasses, ground alfalfa and 1% salt.	As certified, -----	3305
4.35	4.50	15.16	13.50	2.60	Cottonseed meal, brewers' dried grains, gluten feed from corn, molasses, ground alfalfa and 1% salt.	As certified, -----	2902
4.09	-----	14.80	-----	2 78			
3.35	3.80	15.01	15.00	2 00	Cottonseed meal, brewers' dried grains, gluten feed from corn, ground alfalfa, molasses and 1% salt.	As certified, -----	2780
3.09	3.50	16.21	16.50	2 65	Cottonseed meal, brewers' dried grains, gluten feed from corn, ground alfalfa, molasses and 1% salt.	As certified, -----	3160
4.60	3.50	17.85	16.50	58 00	Cottonseed meal, brewers' dried grains, gluten feed from corn, ground alfalfa, molasses and 1% salt.	As certified, -----	3536
3.33	3.60	14.20	16.50	2 40	Cottonseed meal, brewers' dried grains, gluten feed from corn, molasses, ground alfalfa and 1% salt.	As certified, -----	3121
3.45	3.50	16.74	16.50	2 65	Cottonseed meal, brewers' dried grains, gluten feed from corn, molasses, ground alfalfa and 1% salt.	As certified, -----	3314
2.95	3.50	17.84	16.50	2 20	Cottonseed meal, brewers' dried grains, gluten feed from corn, molasses, ground alfalfa and 1% salt.	As certified, -----	2576
* 2.67	3.50	15.50	16.50	2 60	Cottonseed meal, brewers' dried grains, gluten feed from corn, molasses, ground alfalfa and 1% salt.	As certified, -----	2845
3.66	3.80	17.36	15.00	2 25	Cottonseed meal, brewers' dried grains, gluten feed from corn, molasses, ground alfalfa and 1% salt.	As certified, -----	2651
3.65	3.80	15.75	15.00	2.75	Cottonseed meal, brewers' dried grains, gluten feed from corn, molasses, ground alfalfa and 1% salt.	As certified, -----	3486

TABLE IV.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled at	Moisture.	Protein.	
				Found.	Guaranteed.
3273	Purina Dairy Feed, -----	Allentown, A. T. Stover Est.	Per ct. 18.75	Per ct. 20.55	Per ct. 20.00
		Average, -----	14.02	20.93	-----
3119	THE SUGARINE CO., PEORIA, ILL. Sugarine Dairy Feed, -----	Milton, Buffalo Flour Mills.	15.61	19.55	16.50
3511	Sugarine Dairy Feed, -----	Manheim, Lancaster County Farmers' Assn.	10.47	18.92	16.50
2752	Sugarine Dairy Feed, -----	Hanover, C. E. Miller, --	9.25	21.06	16.50
2560	Sugarine Dairy Feed, -----	Philipsburg, J. O. Reed, --	8.68	18.75	16.50
		Average, -----	11.00	19.57	-----
2423	WESTERN GRAIN PRODUCTS CO., HAMMOND, IND. Hammond Dairy Feed, -----	Johnstown, G. Bostert & Sons.	12.03	17.00	16.50
2571	Hammond Dairy Feed, -----	Philipsburg, Centre Milling Co.	12.06	16.66	16.50
3577	Hammond Dairy Feed, -----	Evans City, George Ifft & Sons.	8.93	16.94	16.50
3361	Hammond Dairy Feed, -----	Chambersburg, Lakeview Milling Co.	9.69	17.25	16.50

FEEDING STUFFS COLLECTED IN 1917.—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct. 3.19	Per ct. 3.50	Per ct. 15.22	Per ct. 16.50	\$ 2 95	Cottonseed meal, brewers' dried grains, gluten feed from corn, molasses, ground alfalfa and 1% salt.	As certified, -----	3273
3.49	-----	16.16	-----	50 70			
6.31	3.50	11.74	14 00	2 35	Molasses, cottonseed meal, corn gluten feed, ground and bolted grain screenings, clipped oat by-product, distillers' dried grains and solubles and salt.	As certified, -----	3119
4.76	3.50	14.53	14.00	48 00	Molasses, cottonseed meal, corn gluten feed, ground and bolted grain screenings, clipped oat by-product, distillers' dried grains and solubles, salt and palm kernel meal.	As certified, -----	3511
6.21	3.50	12.35	14.00	2 00	Molasses, cottonseed meal, corn gluten feed, ground and bolted grain screenings, clipped oat by-product, distillers' dried grains and solubles and salt.	As certified, -----	2752
6.52	3.50	13.72	12.00	1 80	Molasses, cottonseed meal, corn gluten feed, ground and bolted grain screenings, clipped oat by-product, corn distillers' dried grains and salt.	Molasses, cottonseed meal, corn gluten feed, ground and bolted grain screenings, clipped oat by-product, distillers' dried grains from corn and Kafir corn, salt and small amount small whole weed seeds.	2560
5.95	-----	13.08	-----	42 75			
3.47	3.50	11.17	12.00	1 65	Cottonseed meal, corn distillers' grains, malt sprouts, ground clipped oat by-product, ground grain screenings, molasses and salt.	As certified, -----	2423
5.26	3.50	13.09	12.00	1 65	Cottonseed meal, corn distillers' grains, malt sprouts, ground clipped oat by-product, ground grain screenings, molasses and salt.	Cottonseed meal, corn distillers' grains, malt sprouts, ground clipped oat by-product, ground grain screenings, molasses, salt and small amount small whole weed seeds.	2571
4.76	3.50	16.25	12.00	46 00	Cottonseed meal, corn distillers' grains, malt sprouts, ground clipped oat by-product, ground grain screenings, cocoashell meal, molasses and salt.	As certified, -----	3577
4.62	3.50	13.91	12.00	2 20	Cottonseed meal, corn distillers' grains, malt sprouts, ground clipped oat by-product, ground grain screenings, cocoashell meal, molasses and salt.	Cottonseed meal, corn distillers' grains, malt sprouts, ground clipped oat by-product, ground grain screenings, cocoashell meal, molasses, salt, buckwheat and small amount small whole weed seeds.	3361

TABLE IV.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer Importer and Brand Name.	Sample at	Moisture.	Protein.	
				Found.	Guaranteed.
2645	Hammond Dairy Feed, -----	New Brighton, M. H. Stager,	Per ct. 12.88	Per ct. 15.66	Per ct. 16.50
2748	Hammond Dairy Feed, -----	Hanover, Wm. J. Young & Co.	12.13	16.30	16.50
	PROPRIETARY STOCK, HORSE AND MULE FEEDS.	Average, -----	11.28	16.64	-----
2566	ACME-EVANS CO., INDIANAPOLIS, IND. Acme Stock Feed, -----	Morrisdale, Morrisdale Feed & Grain Co., Inc.	10.83	9.25	10.00
2556	ACME MILLING CO., OLEAN, N. Y. Acme Feed, -----	Mt. Jewett, J. H. Naylor,	11.57	9.44	7.00
3101	Acme Feed, -----	Ridgway, Smith Brothers Co.	10.37	10.44	7.00
	THE AKRON FEED & MILLING CO., AKRON, OHIO.	Average, -----	10.97	9.94	-----
2414	Portage Stock Feed, -----	Windber, Claude Davis, --	7.03	9.88	9.00
2863	Portage Stock Feed, -----	Spartansburg, Davis & Hyde.	7.89	10.50	9.00
2623	Portage Stock Feed, -----	Beaver Falls, Dodds & Garrett.	6.86	9.38	9.00
2473	Portage Stock Feed, -----	Connellsville, Dull & Co.,	7.52	9.75	9.00
2707	Portage Stock Feed, -----	Greensburg, Hudson & Kuhns.	6.79	9.06	9.00
3490	Portage Stock Feed, -----	Jeannette, Keystone Sup- ply Co.	7.58	10.50	9.00

FEEDING STUFFS COLLECTED IN 1917.—Continued.

Fat.		Fiber.		Price cpr ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct. 4.03	Per ct. 3.50	Per ct. 12.18	Per ct. 12.00	\$ 1 90	Cottonseed meal, corn distillers grains, malt sprouts, ground clipped oat by-product, ground grain screenings, molasses and salt.	As certified, -----	2645
4.42	3.50	11.43	12.00	2 10	Cottonseed meal, corn distillers grains, malt sprouts, ground clipped oat by-product, ground grain screenings, molasses and salt.	Cottonseed meal, corn distillers grains, malt sprouts, ground clipped oat by products, ground grain screenings, molasses, salt and small amount small whole weed seeds.	2748
4.43	-----	13.00	-----	39 33			
3.36	4.00	9.33	9.00	2 40	Corn, hominy, corn feed meal, barley, oat shorts, oat feed and oat middlings.	Corn, hominy feed, corn feed meal, oat shorts, oat hulls and oat middlings.	2566
4.27	3.00	4.53	9.00	2 30	Corn, hominy, oat hulls and $\frac{1}{2}$ of 1% salt.	As certified, -----	2556
3.22	3.00	6.36	9.00	3 50	Corn, hominy, oat hulls and $\frac{1}{2}$ of 1% salt.	As certified, -----	3101
3.75	-----	5.44	-----	2 90			
5.86	4.00	11.40	9.00	38 00	White or yellow shelled corn, barley, oat shorts, oat hulls, oat middlings and $\frac{1}{2}$ of 1% salt.	White or yellow shelled corn, oat shorts, oat hulls, oat middlings and salt.	2414
6.69	4.00	11.24	9.00	2 75	White or yellow shelled corn, barley, oat shorts, oat hulls, oat middlings and $\frac{1}{2}$ of 1% salt.	As certified, -----	2863
5.32	4.00	12.35	9.00	2 15	White or yellow shelled corn, barley, oat shorts, oat hulls, oat middlings and $\frac{1}{2}$ of 1% salt.	White or yellow shelled corn, oat shorts, oat hulls, oat middlings and salt.	2623
6.54	4.00	10.49	9.00	2 00	White or yellow shelled corn, barley, oat shorts, oat hulls, oat middlings and $\frac{1}{2}$ of 1% salt.	As certified, -----	2473
6.37	4.00	11.51	9.00	2.20	White or yellow shelled corn, barley, oat shorts, oat hulls, oat middlings and $\frac{1}{2}$ of 1% salt.	White or yellow shelled corn, oat shorts, oat hulls, oat middlings and salt.	2707
4.56	4.00	13.75	9.00	60 00	White or yellow shelled corn, barley, oat shorts, oat hulls, oat middlings and $\frac{1}{2}$ of 1% salt.	As certified, -----	3490

TABLE IV.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer Importer and Brand Name.	Sample at	Moisture.	Protein.	
				Found.	Guaranteed.
3309	Portage Stock Feed, -----	Ebensburg, Leo C. Kimble,	Per ct. 9.03	Per ct. 10.38	Per ct. 9.00
2998	Portage Stock Feed, -----	Belleville, Lauderbach- Zerby Co.	10.12	9.94	9.00
2463	Portage Stock Feed, -----	Bedford, H. H. Lysinger,	7.91	9.56	9.00
3244	Portage Stock Feed, -----	Charleroi, R. C. Mountser,	8.84	10.38	9.00
2991	Portage Stock Feed, -----	Mifflinburg, Union Hard- ware Co.	10.11	11.44	9.00
		Average, -----	8.15	10.07	-----
3216	ALTOONA FEED MILLS, AL- TOONA, PA. Horse Chop, -----	Altoona, Altoona Feed Mills.	10.17	13.19	7.00
3365	AMERICAN MILLING CO., PE- ORIA, ILL. Amco Stock Feed, -----	Williamson, J. D. Gold- smith.	7.43	16.63	10.00
3044	Sucrene Stock Feed,* -----	Ellwood City, W. W. Davison & Son.	9.61	14.63	12.00
2630	J. J. BADENOCH CO., CHICAGO, ILL. Curvneck Horse Feed, -----	New Brighton, J. H. Hornby & Sons.	9.64	10.56	10.00
2429	THE CORNO MILLS CO., ST. LOUIS, MO. Corno Stock Feed, -----	South Fork, J. E. Cris- man.	7.87	9.50	9.00
3313	DANNALS MILLING CO., AL- TOONA, PA. Superior Horse Chop, -----	Cresson, H. J. Eberly, --	10.84	13.25	8-10
2224	Superior Horse Chop, -----	Juniata, R. I. Remaley,	10.85	13.00	8-10
		Average, -----	10.84	13.13	-----

*Not registered

FEEDING STUFFS COLLECTED IN 1917.—Continued.

Fat.		Fiber.		Price cpr ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct. 5.27	Per ct. 4.00	Per ct. 9.32	Per ct. 9.00	\$ 2 90	White or yellow shelled corn, barley, oat shorts, oat hulls, oat middlings and $\frac{1}{2}$ of 1% salt.	As certified, -----	3309
3.85	4.00	11.96	9.00	60 00	White or yellow shelled corn, barley, oat shorts, oat hulls, oat middlings and $\frac{1}{2}$ of 1% salt.	As certified, -----	2998
4.44	4.00	10.09	9.00	1 70	White or yellow shelled corn, barley, oat shorts, oat hulls, oat middlings and $\frac{1}{2}$ of 1% salt.	White or yellow shelled corn, oat shorts, oat hulls, oat middlings and salt.	2463
5.52	4.00	13.20	9.00	2 85	White or yellow shelled corn, barley, oat shorts, oat hulls, oat middlings and $\frac{1}{2}$ of 1% salt.	As certified, -----	3244
5.73	4.00	10.98	9.00	2 75	White or yellow shelled corn, barley, oat shorts, oat hulls, oat middlings and $\frac{1}{2}$ of 1% salt.	As certified, -----	2991
5.47	-----	11.48	-----	49 45			
5.13	3.00	6.45	9.00	60 00	Oat midds, oat hulls, hominy, rye midds and bran.	As certified, -----	3216
5.94	3.50	10.53	8.00	3 00	Corn germ meal, corn feed meal, cottonseed meal, corn gluten feed, oat hulls, oat middlings, oat shorts and salt.	As certified, -----	3365
3.87	3.00	14.84	16.00	2 70	Oat middlings, oat hulls, oat shorts, corn distillers dried grains, corn feed meal, alfalfa meal, corn meal, barley, oats and salt.	As certified, -----	3044
5.54	4.00	6.07	5.00	2 50	Corn, oats and barley,	Corn and oats, -----	2630
5.48	3.50	13.17	10.00	1 75	Mixture of oat feed and hominy feed.	Oat middlings, oat hulls and hominy feed.	2429
5.27	3.5-4.5	4.39	7-9	3 75	Oats, hominy feed, rye middlings and reddog flour.	As certified, -----	3313
5.68	3.5-4.5	4.52	7-9	3 45	Oats, hominy feed, rye middlings and reddog flour.	As certified, -----	3224
5.48	-----	4.45	-----	3 60			

TABLE IV.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer Importer and Brand Name.	Sample at	Moisture.	Protein.	
				Found.	Guaranteed.
3225	THE ALBERT DICKINSON CO., CHICAGO, ILL. Stag Stock Feed, -----	Juniata, R. I. Remaley,	Per ct. 10.36	Per ct. 10.94	Per ct. 9.00
3239	Stag Stock Feed, -----	Charleroi, Western Flour Co.	10.89	9.50	9.00
		Average, -----	10.62	10.22	-----
2469	White Cross Stock Feed, -----	Johnstown, Johnstown Mill- ing Co.	12.73	11.44	10.00
2696	White Cross Stock Feed, -----	Greensburg, D. F. Kilgore & Co.	10.43	10.56	10.00
3226	White Cross Stock Feed, -----	Juniata, R. I. Remaley,	11.08	11.63	10.00
		Average, -----	11.41	11.21	-----
3359	DIEHL, OMWAKE & DIEHL, CHAMBERSBURG, PA. D. O. & D. Stock Feed,* -----	Chambersburg, Diehl, Om- wake & Diehl.	8.88	16.56	10.00
3494	JOHN W. ESHELMAN, LANCAS- TER, PA. Eshelman's Stock Feed, -----	Laneaster, John W. Esh- elman.	8.67	13.31	10.00
2532	Eshelman's Stock Feed, -----	An n v i l l e, Newgard & Bachman.	11.39	10.06	10.00
		Average, -----	10.03	11.69	-----

*Not registered.

FEEDING STUFFS COLLECTED IN 1917.—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct. 5.03	Per ct. 3.00	Per ct. 9.65	Per ct. 9.00	\$ 3 10	Corn feed meal, ground corn bran, ground corn screenings, ground barley, oat meal mill by-product (oat middlings, oat hulls, oat shorts), wheat middlings, cottonseed meal and salt $\frac{1}{2}$ of 1%.	Corn feed meal, ground corn bran, ground corn screenings, oat middlings, oat hulls, oat shorts, wheat middlings, cottonseed meal and salt.	3225
3.41	3.00	9.28	9.00	2 80	Corn feed meal, ground corn bran, ground corn screenings, ground barley, oat meal mill by-product (oat middlings, oat hulls, oat shorts), wheat middlings, cottonseed meal and salt $\frac{1}{2}$ of 1%.	As certified, -----	3239
4.22	-----	9.46	-----	2.95			
4.59	3.50	3.96	10.00	2 10	Ground oats, ground barley, corn feed meal, wheat meal, ground corn bran, cottonseed meal and salt $\frac{1}{2}$ of 1%.	Ground oats, corn feed meal, wheat meal, ground corn bran, cottonseed meal and salt.	2469
4.26	3.50	4.96	10.00	2 40	Ground oats, ground barley, corn feed meal, wheat meal, ground corn bran, cottonseed meal and salt $\frac{1}{2}$ of 1%.	As certified, -----	2696
6.31	3.50	4.87	10.00	3 25	Ground oats, ground barley, corn feed meal, wheat meal, ground corn bran, cottonseed meal and salt $\frac{1}{2}$ of 1%.	Ground oats, corn feed meal, wheat meal, ground corn bran, cottonseed meal and salt.	3226
5.05	-----	4.59	-----	2 58			
3.55	3.25	9.65	9.00	54 00	Corn chop, wheat bran, wheat middlings, oat feed, old process oil meal, cottonseed meal, ground barley and $\frac{1}{2}$ of 1% salt.	Corn chop, wheat bran, wheat middlings, oat middlings, oat hulls, old process oil meal, cottonseed meal, ground barley and salt.	3359
4.58	3.00	13.78	9.00	48 00	Oat middlings, wheat middlings, cottonseed meal, ground grain screenings, rye middlings, corn meal, oat hulls and hominy feed.	As certified, -----	3494
4.42	3.00	8.64	9.00	2 00	Oat middlings, wheat middlings, cottonseed meal, ground grain screenings, rye middlings, corn meal, oat hulls and hominy feed.	As certified, -----	2532
4.50	-----	11.21	-----	44 00			

TABLE IV.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer Importer and Brand Name.	Sample at	Moisture.	Protein.	
				Found.	Guaranteed.
3113	GLOBE ELEVATOR CO., BUF- FALO, N. Y. Buffalo Stock Feed, -----	St. Marys, Hall, Kaul & Hyde Co.	Per ct. 9.65	Per ct. 11.00	Per ct. 10-11
3299	Buffalo Stock Feed, -----	Clearfield, J. T. Murphy,	9.14	10.63	9.00
2942	Buffalo Stock Feed, -----	Emporium, E. J. Rogers,	9.92	9.13	9-10
		Average, -----	9.57	10.25	-----
2883	HALES & EDWARDS CO., CHI- CAGO, ILL. Pioneer Feed, -----	Carnegie, J. H. Bergan & Son.	9.59	9.00	10.00
2641	Pioneer Feed, -----	Beaver, A. F. Grine, ----	9.68	10.19	10.00
		Average, -----	9.63	9.60	-----
3294	ILLINOIS FEED MILLS, ST. LOUIS, MO. Lucky Strike Stock Feed,* -----	Clearfield, Lauderbach- Zerby Co.	8.95	13.87	12.00
3301	Lucky Strike Stock Feed,* -----	Phillipsburg, Lauderbach- Zerby Co.	8.81	12.90	12.00
		Average, -----	8.88	13.39	-----
2971	JAMESTOWN ELECTRIC MILLS, JAMESTOWN, N. Y. Jem Stock Feed, -----	Coudersport, Eulalia Mill- ing Co.	9.55	14.06	11.00
3219	KLEPSER BROTHERS, MARTINS- BURG, PA. Horse Chop, -----	Altoona, Klepser Brothers,	10.34	14.69	7.00

*Not registered.

FEEDING STUFFS COLLECTED IN 1917.—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct.	Per ct.	Per ct.	Per ct.	\$			
4-11	4-6	9.36	10-12				
				3 50	Corn, hominy feed, ground corn, ground oats and oat hulls, wheat middlings, cottonseed meal and salt $\frac{3}{4}$ of 1%.	As certified, -----	3113
4.58	4.00	10.05	9.00	3.75	Corn, hominy feed, ground corn, ground oats and oat hulls, wheat middlings, cottonseed meal and salt $\frac{3}{4}$ of 1%.	As certified, -----	3299
2.85	4-6	12.25	9.00	3.45	Corn, hominy feed, ground corn, ground oats and oat hulls, wheat middlings, cottonseed meal and salt $\frac{3}{4}$ of 1%.	As certified, -----	2942
3.85	-----	10.55	-----	3.57			
3.39	2.50	10.31	9.00	2 40	Corn feed meal, oat feed, wheat middlings, wheat bran and corn gluten feed.	Corn feed meal, oat hulls, oat middlings, wheat middlings, wheat bran and corn gluten feed.	2883
3.30	2.50	9.73	9.00	2 15	Corn feed meal, oat feed, wheat middlings, wheat bran and corn gluten feed.	Corn feed meal, oat hulls, oat middlings, wheat middlings, wheat bran and corn gluten feed.	2641
3.35	-----	10.02	-----	2 28			
2.79	3.00	16.26	20.00	53 00	Hominy feed, gluten feed from corn, cottonseed meal, ground corn meal from shelled corn, oat middlings, oat shorts, oat hulls, cottonseed hull bran and salt.	Hominy feed, corn gluten feed, cottonseed meal, ground corn meal, oat middlings, oat shorts, oat hulls, cottonseed hulls and salt.	3294
3.41	3.00	16.00	20.00	53 00	Hominy feed, gluten feed from corn, cottonseed meal, ground corn meal from shelled corn, oat middlings, oat shorts, oat hulls, cottonseed hull bran and salt.	Hominy feed, corn gluten feed, cottonseed meal, ground corn meal, oat middlings, oat shorts, oat hulls, cottonseed hulls and salt.	3301
3.10	-----	16.13	-----	53 00			
5.14	6.00	10.16	9.00	3 25	Ground corn, hominy feed, corn oil meal, ground oats, oat middlings, oat shorts, ground oat hulls, linseed oil meal and small percentage of fine salt.	As certified, -----	2971
6.14	3.00	4.91	7-9	4 00	Oats, hominy and wheat midds.	As certified, -----	3219

TABLE IV.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer Importer and Brand Name.	Sample at	Moisture.	Protein.	
				Found.	Guaranteed.
2908	CHARLES A. KRAUSE MILLING CO., MILWAUKEE, WIS. Badger Stock Feed, -----	Pottstown, S. Clouse & Co.	Per ct. 9.28	Per ct. 9.88	Per ct. 10.00
3454	Badger Stock Feed, -----	New Oxford, J. H. Dut- tera.	9.37	10.13	10.00
3326	Badger Stock Feed, -----	Troy, Farmers & Consum- ers Commercial Union.	8.38	10.13	10.00
2689	Badger Stock Feed, -----	Greensburg, McFarland Supply Co.	7.53	9.63	10.00
3466	Badger Stock Feed, -----	Altoona, Miller Brothers,	8.85	10.50	10.00
2531	Badger Stock Feed, -----	Harrisburg, Paxton Flour & Feed Co.	7.20	9.38	10.00
2839	Badger Stock Feed, -----	Carlisle, L. L. Rice, -----	6.73	10.44	10.00
3055	Badger Stock Feed, -----	Washington, C. B. Ruch,	9.41	11.00	10.00
3153	Badger Stock Feed, -----	Millerstown, I. B. Seerist,	7.71	12.00	10.00
2731	Badger Stock Feed, -----	York, Strayer Brothers Co.	7.85	9.06	10.00

FEEDING STUFFS COLLECTED IN 1917.—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct.	Per ct.	Per ct.	Per ct.	\$			
5.23	4.50	10.99	9.00	2 20	Hominy feed, barley, maize corn oil meal, maize reddog flour, oat meal mill by-product (oat middlings, oat hulls, oat shorts) and salt.	Hominy feed, maize corn oil meal, maize reddog flour, oat middlings, oat hulls, oat shorts and salt.	2908
5.41	4.50	12.55	9.00	2 90	Hominy feed, corn, corn germ meal, maize reddog flour, oat meal mill by-product (oat middlings, oat hulls, oat shorts) and salt.	As certified, -----	3454
5.75	4.50	12.30	9.00	2 75	Hominy feed, corn, corn germ meal, maize reddog flour, oat meal mill by-product (oat middlings, oat hulls, oat shorts) and salt.	As certified, -----	3326
5.04	4.50	13.00	9.00	2 20	Hominy feed, barley, maize corn germ meal, maize reddog flour, oat meal mill by-product (oat middlings, oat hulls, oat shorts) and salt.	Hominy feed, maize corn germ meal, maize reddog flour, oat middlings, oat hulls, oat shorts and salt.	2689
4.98	4.50	14.01	9.00	56 00	Hominy feed, corn, corn germ meal, maize reddog flour, oat meal mill by-product (oat middlings, oat hulls, oat shorts) and salt.	As certified, -----	3466
4.58	4.50	8.39	9.00	2 15	Hominy feed, barley, maize corn oil meal; maize reddog flour, oat meal mill by-product (oat middlings, oat hulls, oat shorts) and salt.	Hominy feed, maize corn oil meal, maize reddog flour, oat middlings, oat hulls, oat shorts and salt.	2531
5.74	4.50	13.06	9.00	2 25	Hominy feed, barley, maize corn oil meal, maize reddog flour, oat meal mill by-product (oat middlings, oat hulls, oat shorts) and salt.	Hominy feed, maize corn oil meal, maize reddog flour, oat middlings, oat hulls, oat shorts and salt.	2839
5.57	4.50	10.03	9.00	3 00	Hominy feed, barley, maize corn oil meal, maize reddog flour, oat meal mill by-product (oat middlings, oat hulls, oat shorts) and salt.	As certified, -----	3055
4.68	4.50	13.30	9.00	3.00	Hominy feed, barley, maize corn oil meal, maize reddog flour, oat meal mill by-product (oat middlings, oat hulls, oat shorts) and salt.	As certified, -----	3153
4.41	4.12	13.48	9.00	2.20	Hominy feed, barley, maize corn germ meal, maize reddog flour, oat meal mill by-product (oat middlings, oat hulls, oat shorts) and salt.	As certified, -----	2731

TABLE IV.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer Importer and Brand Name.	Sample at	Moisture.	Protein.	
				Found.	Guaranteed.
3039	Badger Stock Feed, -----	Houston, W. M. Templeton & Sons.	Per ct. 8.60	Per ct. 9.25	Per ct. 10.00
5382	Badger Stock Feed, -----	Warren, Warren City Mills,	8.81	10.25	10.00
		Average, -----	8.31	10.14	-----
3470	Pep Feed, -----	Frankstown, J. Herbert Rodkey.	8.44	11.19	10.00
3125	C. H. McMAHAN, MILTON, PA. McMahan's Prepared Horse Feed,* --	Milton, C. H. McMahan,	8.36	22.00	18-20
5597	MINER-HILLARD MILLING CO., WILKES-BARRE, PA. Mihimico Stock Feed, -----	Wilkes-Barre, Miner-Hillard Milling Co.	9.37	11.75	17.00
2540	NOWAK MILLING CORPORATION, BUFFALO, N. Y. Domino Stock Feed, -----	Swatara, J. B. Curry Est.,	7.52	9.13	10.00
3007	Domino Stock Feed, -----	Palmyra, John B. Curry's Sons.	9.40	9.94	10.00
		Average, -----	8.46	9.54	-----
2739	Fidelity Stock Feed, -----	York, Anderson Brothers Co.	9.58	10.75	8.00
3128	Fidelity Stock Feed, -----	Montgomery, C. L. Her- rold,	9.55	9.44	8.00
3157	Fidelity Stock Feed, -----	Millerstown, A. H. Ulsh,	9.72	9.50	8.00
		Average, -----	9.61	9.90	-----

*Not registered.

FEEDING STUFFS COLLECTED IN 1917.—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct.	Per ct.	Per ct.	Per ct.	\$			
4.11	4.50	16.65	9.00	2 80	Hominy feed, barley, maize corn germ meal, maize reddog flour, oat meal mill by-product (oat middlings, oat hulls, oat shorts) and salt.	As certified, -----	3069
5.03	4.50	12.60	9.00	2 90	Hominy feed, corn, corn germ meal, maize reddog flour, oat meal mill by-product (oat middlings, oat hulls, oat shorts) and salt.	As certified, -----	3382
5.04	-----	12.53	-----	51 92			
4.40	3.50	12.13	16.00	3 25	Cracked corn, crushed oats, hominy feed, alfalfa meal, oat middlings, oat hulls, oat shorts and salt.	As certified, -----	3470
6.81	7-8	8.87	9-10	2 50	Brewers dried grains, hominy meal, cottonseed meal, malt sprouts and middlings.	As certified, -----	3125
4.80	5.00	7.98	10.00	3 20	Alfalfa meal, hominy feed, wheat middlings, rye middlings, corn, oats, corn oil meal and salt.	As certified, -----	3597
5.16	3.00	11.88	9.00	2 05	Hominy feed, oat middlings, low grade flour, oat hulls and salt $\frac{3}{4}$ of 1%.	As certified, -----	2540
4.82	3.00	11.98	9.00	2 80	Hominy feed, oat middlings, low grade flour, oat hulls and salt $\frac{3}{4}$ of 1%.	As certified, -----	3007
4.96	-----	11.93	-----	2 43			
5.49	3.00	7.88	12.00	2 30	Ground oats, corn feed meal, hominy feed, wheat middlings, clipped oat by-product, ground grain screenings, salt $\frac{3}{4}$ of 1% and oat middlings.	As certified, -----	2789
4.15	3.00	12.29	12.00	3 10	Ground oats, corn feed meal, hominy feed, wheat middlings, clipped oat by-product, ground grain screenings, salt $\frac{3}{4}$ of 1% and oat middlings.	Ground oats, corn feed meal, hominy feed, wheat middlings, oat middlings, oat hulls, oat shorts, ground grain screenings and salt.	3128
2.66	3.00	11.40	12.00	2 80	Ground oats, corn feed meal, hominy feed, wheat middlings, clipped oat by-product, ground grain screenings, salt $\frac{3}{4}$ of 1% and oat middlings.	Ground oats, corn feed meal, hominy feed, wheat middlings, oat middlings, oat hulls, oat shorts, ground grain screenings and salt.	3157
4.10	-----	10.52	-----	2 73			

TABLE IV.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer Importer and Brand Name.	Sample at.	Moisture.	Protein.	
				Found.	Guaranteed.
3548	THE PARK & POLLARD CO., BOSTON, MASS. Stock Feed,* -----	West Chester, T. S. Golden.	Per ct. 8.40	Per ct. 11.00	Per ct. 9.00
2496	F. V. PERRY, SCOTTDALE, PA. Alfalfa Horse Feed,* -----	Scottdale, F. V. Perry, --	10.23	11.00	10-12
2702	THE QUAKER OATS CO., CHI- CAGO, ILL. Boss Feed, -----	Latrobe, Golde Flour & Feed Store.	10.24	9.56	8.00
2447	Boss Feed, -----	Mifflin, W. H. Manbeck & Co.	8.35	9.31	8.00
		Average, -----	9.30	9.44	-----
3445	C. C. & B. Feed, -----	Hays, Charles F. Adam- itz.	8.85	11.63	10.00
2478	C. O & B. Feed, -----	Dunbar, Hardy & Porter,	9.15	11.63	10.00

*Not registered

FEEDING STUFFS COLLECTED IN 1917.—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct.	Per ct.	Per ct.	Per ct.	\$			
5.45	1.50	12.28	12.00	60 00	Ground corn, hominy feed and oat feed.	Ground corn, hominy feed, oat middlings and oat hulls.	3548
4.30	3-5	6.11	9-11	2 40	Cracked corn, rolled oats, bran, cut alfalfa hay and salt.	As certified, -----	2496
4.33	3.25	8.24	9.00	2 25	Ground corn, hominy feed, ground Kaffir corn, oat meal mill by-product (oat middlings, oat hulls, oat shorts) and $\frac{1}{2}$ of 1% salt.	As certified, -----	2702
3.73	3.00	10.34	9.00	2 00	Ground corn, hominy feed, oat meal mill by-product (oat middlings, oat hulls, oat shorts) and $\frac{1}{2}$ of 1% salt.	As certified, -----	2447
4.03	-----	9.29	-----	2 13			
4.24	3.25	12.21	9.00	3 00	Ground corn, hominy feed, corn feed meal, by-product from manufacture of hominy and corn meal by degerm-inator process with partial extraction of oil, ground barley, wheat flour, wheat middlings (with ground screenings not exceeding mill run), cottonseed meal, ground puffed rice, ground puffed wheat, oat meal mill by-product (oat middlings, oat hulls, oat shorts) and $\frac{1}{2}$ of 1% salt.	As certified, -----	3445
4.17	3.25	10.57	9.00	2 25	Ground corn, hominy feed, ground barley, wheat flour, ground Kaffir corn, wheat middlings with ground screenings not exceeding mill run, ground puffed rice, ground puffed wheat, cottonseed meal, oat meal mill by-product (oat middlings, oat hulls, oat shorts) and $\frac{1}{2}$ of 1% salt.	As certified, -----	2478

TABLE IV.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled at	Moisture.	Protein.	
				Found.	Guaranteed.
3562	C. O. & B. Feed, -----	Indiana, Hetrick-Wilson & Co.	Per ct. 8.77	Per ct. 12.06	Per ct. 10.00
3174	C. O. & B. Feed, -----	Oil City, Oil City Milling Co.	10.45	11.63	10.00
		Average, -----	9.30	11.74	-----
2777	Schumacher Feed, -----	Somerset, H. C. Beerits' Sons.	8.75	10.94	10.00
3087	Schumacher Feed, -----	Berwick, T. M. Bomboy,	9.54	12.25	10.00

FEEDING STUFFS COLLECTED IN 1917.—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct.	Per ct.	Per ct.	Per ct.	\$			
4.71	3.25	11.86	10.00	3 25	Ground corn, hominy feed, corn feed meal, by-product from manufacture of hominy and corn meal by degerminator process with partial extraction of oil, ground barley, wheat flour, wheat middlings (with ground screenings not exceeding mill run), cottonseed meal, ground puffed rice, ground puffed wheat, oat meal mill by-product (oat middlings, oat hulls, oat shorts) and $\frac{1}{2}$ of 1% salt.	As certified, -----	3562
4.30	3.25	10.63	10.00	3 40	Ground corn, hominy feed, ground barley, wheat flour, wheat middlings with ground screenings not exceeding mill run, cottonseed meal, ground puffed rice, ground puffed wheat, oat meal mill by-product (oat middlings, oat hulls, oat shorts) and $\frac{1}{2}$ of 1% salt.	As certified, -----	3174
4.36	-----	11.19	-----	2 98			
4.56	3.25	10.50	9.00	2 30	Ground hominy feed, ground barley, wheat flour, wheat middlings with ground screenings, cottonseed meal, ground puffed rice, ground puffed wheat, oat meal mill by-product (oat middlings, oat hulls, oat shorts) and $\frac{1}{2}$ of 1% salt.	As certified, -----	2777
		10.26	9.00	3 10	Ground corn, hominy feed, corn feed meal, by-product from manufacture of hominy and corn meal by degerminator process with partial extraction of oil, ground barley, wheat flour, wheat middlings (with ground screenings not exceeding mill run), cottonseed meal, ground puffed rice, ground puffed wheat, oat meal mill by-product (oat middlings, oat hulls, oat shorts) and $\frac{1}{2}$ of 1% salt.	As certified, -----	3087

TABLE IV.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled at	Moisture.	Protein.	
				Found.	Guaranteed.
2535	Schumacher Feed, -----	Hummelstown, Joseph Burkholder.	Per ct. 7.80	Per ct. 11.88	Per ct. 10.00
3469	Schumacher Feed, -----	Holidaysburg, Fay Milling Co.	8.93	12.25	10.00
3291	Schumacher Feed, -----	Monongahela, James B. Hayward & Son.	10.07	12.81	10.00
3022	Schumacher Feed, -----	Hershey, Hershey Store Co.	10.37	13.06	10.00

FEEDING STUFFS COLLECTED IN 1917.—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct. 3.98	Per ct. 3.25	Per ct. 9.67	Per ct. 10.00	\$ 1 80	Ground corn, hominy feed, ground barley, wheat flour, wheat middlings with ground screenings not exceeding mill run, cottonseed meal, ground puffed rice, ground puffed wheat, ground Kaffir corn, oat meal mill by-product (oat middlings, oat hulls, oat shorts) and $\frac{1}{2}$ of 1% salt.	As certified, -----	2535
4.56	3.25	12.10	9.00	3 25	Ground corn, hominy feed, corn feed meal, by-product from manufacture of hominy and corn meal by degerminator process with partial extraction of oil, ground barley, wheat flour, wheat middlings (with ground screenings not exceeding mill run), cottonseed meal, ground puffed rice, ground puffed wheat, oat meal mill by-product (oat middlings, oat hulls, oat shorts) and $\frac{1}{2}$ of 1% salt.	As certified, -----	3469
4.16	3.25	11.57	9.00	2 90	Ground corn, hominy feed, corn feed meal, by-product from manufacture of hominy and corn meal by degerminator process with partial extraction of oil, ground barley, wheat flour, wheat middlings (with ground screenings not exceeding mill run), cottonseed meal, ground puffed rice, ground puffed wheat, oat meal mill by-product (oat middlings, oat hulls, oat shorts) and $\frac{1}{2}$ of 1% salt.	As certified, -----	3291
3.96	3.25	9.06	10.00	47 00	Ground corn, hominy feed, ground barley, wheat flour, wheat middlings with ground screenings not exceeding mill run, cottonseed meal, ground puffed rice, ground puffed wheat, oat meal mill by-product (oat middlings, oat hulls, oat shorts) and $\frac{1}{2}$ of 1% salt.	As certified, -----	3022

TABLE IV.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled at	Moisture.	Protein.	
				Guaranteed.	Found.
3543	Schumacher Feed, -----	West Chester, C. C. Hipple.	Per ct. 9.19	Per ct. 11.81	Per ct. 10.00
2706	Schumacher Feed, -----	Greensburg, Hudson & Kuhns.	9.48	11.31	10.09
3195	Schumacher Feed, -----	Pottsville, Jalappa Grain Elevator.	9.03	11.56	10.00
2848	Schumacher Feed, -----	Titusville, Kerr Hill Milling Co., Ltd.	10.41	11.13	10.00

FEEDING STUFFS COLLECTED IN 1917.—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct. 6.31	Per ct. 3.25	Per ct. 11.37	Per ct. 10.00	\$ 60 00	Ground corn, hominy feed, corn feed meal, by-product from manufacture of hominy and corn meal by degerminator process with partial extraction of oil, ground barley, wheat flour, wheat middlings (with ground screenings not exceeding mill run), cottonseed meal, ground puffed rice, ground puffed wheat, oat meal mill by-product (oat middlings, oat hulls, oat shorts) and $\frac{1}{2}$ of 1% salt.	As certified, -----	3543
4.48	3.25	7.50	9.00	2 20	Ground corn, hominy feed, corn feed meal, by-product from manufacture of hominy and corn meal by degerminator process with partial extraction of oil, ground barley, wheat flour, wheat middlings (with ground screenings not exceeding mill run), cottonseed meal, ground puffed rice, ground puffed wheat, oat meal mill by-product (oat middlings, oat hulls, oat shorts) and $\frac{1}{2}$ of 1% salt.	As certified, -----	2706
3.78	3.25	12.22	9.00	2 50	Ground corn, hominy feed, corn feed meal, by-product from manufacture of hominy and corn meal by degerminator process with partial extraction of oil, ground barley, wheat flour, wheat middlings (with ground screenings not exceeding mill run), cottonseed meal, ground puffed rice, ground puffed wheat, oat meal mill by-product (oat middlings, oat hulls, oat shorts) and $\frac{1}{2}$ of 1% salt.	As certified, -----	3195
4.71	3.15	7.71	9.00	3 00	Ground corn, hominy feed, corn feed meal, by-product from manufacture of hominy and corn meal by degerminator process with partial extraction of oil, ground barley, wheat flour, wheat middlings (with ground screenings not exceeding mill run), cottonseed meal, ground puffed rice, ground puffed wheat, oat meal mill by-product (oat middlings, oat hulls, oat shorts) and $\frac{1}{2}$ of 1% salt.	As certified, -----	2848

TABLE IV.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled at	Moisture.	Protein.	
				Found.	Guaranteed.
2899	Schumacher Feed, -----	Pottstown, A. K. Kulp, --	Per ct. 9.50	Per ct. 10.25	Per ct. 10.00
2001	Schumacher Feed, -----	Bellefonte, Lauderbach-Zerby Co.	10.70	12.50	10.00
2436	Schumacher Feed, -----	Lewistown, Logan Flour Mills.	8.30	10.94	10.00
2984	Schumacher Feed, -----	Lewisburg, E. C. Noll, --	10.96	11.83	10.00

FEEDING STUFFS COLLECTED IN 1917.—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct. 3.99	Per ct. 3.25	Per ct. 10.50	Per ct. 9.00	\$ 2 10	Ground corn, hominy feed, ground barley, wheat flour, wheat middlings with ground screenings not exceeding mill run, cottonseed meal, ground puffed rice, ground puffed wheat, oat meal mill by-product (oat middlings, oat hulls, oat shorts) and $\frac{1}{2}$ of 1% salt.	As certified, -----	2899
4.53	3.25	8.96	9.00	60 00	Ground corn, hominy feed, corn feed meal, by-product from manufacture of hominy and corn meal by degerminator process with partial extraction of oil, ground barley, wheat flour, wheat middlings with ground screenings not exceeding mill run, ground puffed rice, ground puffed wheat, cottonseed meal, oat meal mill by-product (oat middlings, oat hulls, oat shorts) and $\frac{1}{2}$ of 1% salt.	Ground corn, hominy feed, corn feed meal, ground barley, wheat flour, wheat middlings with ground screenings not exceeding mill run, ground puffed rice, ground puffed wheat, cottonseed meal, oat middlings, oat hulls, oat shorts, salt and trace small whole weed seeds.	3001
3.50	3.25	9.70	10.00	1 85	Ground corn, ground barley, hominy feed, wheat flour, cottonseed meal, ground puffed rice, ground puffed wheat, wheat middlings with ground screenings not exceeding mill run, oat meal mill by-product (oat middlings, oat hulls, oat shorts) and $\frac{1}{2}$ of 1% salt.	As certified, -----	2436
3.88	3.25	9.88	9.00	48 00	Ground corn, hominy feed, corn feed meal, by-product from manufacture of hominy and corn meal by degerminator process with partial extraction of oil, ground barley, wheat flour, wheat middlings (with ground screenings not exceeding mill run), cottonseed meal, ground puffed rice, ground puffed wheat, oat meal mill by-product (oat middlings, oat hulls, oat shorts) and $\frac{1}{2}$ of 1% salt.	As certified, -----	2984

TABLE IV.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled at	Moisture.	Protein.	
				Found.	Guaranteed.
2456	Schumacher Feed, -----	Mt. Union, David Rummel,	Per et. 8.62	Per et. 11.56	Per et. 10.00
3402	Schumacher Feed, -----	Clarion, A. C. Snyder & Son.	8.98	12.88	10.00
2660	Schumacher Feed, -----	Reading, F. S. Wertz & Son.	8.85	11.50	10.00
		Average, -----	9.38	11.79	-----
3539	Schumacher Special Horse Feed, ----	West Chester, C. C. Hipple & Son.	9.22	10.75	9.25
2955	Schumacher Special Horse Feed, ----	Llanerch, S. H. Moore, --	11.96	10.25	9.25
		Average, -----	10.59	10.50	-----

FEEDING STUFFS COLLECTED IN 1917.—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct.	Per ct.	Per ct.	Per ct.	\$			
3.88	3.25	10.31	9.00	1 90	Ground corn, hominy feed, wheat flour, ground Kafir corn, wheat middlings with ground screenings not exceeding mill run, ground puffed rice, ground puffed wheat, cottonseed meal, oat meal mill by-product (oat middlings, oat hulls, oat shorts) and $\frac{1}{2}$ of 1% salt.	As certified, -----	2456
4.72	3.25	12.84	10.00	3 25	Ground corn, hominy feed, corn feed meal, by-product from manufacture of hominy and corn meal by degerminator process with partial extraction of oil, ground barley, wheat flour, wheat middlings (with ground screenings not exceeding mill run), cottonseed meal, ground puffed rice, ground puffed wheat, oat meal mill by-product (oat middlings, oat hulls, oat shorts) and $\frac{1}{2}$ of 1% salt.	As certified, -----	3402
3.98	3.25	10.26	9.00	2 10	Ground corn, hominy feed, ground barley, wheat flour, ground Kafir corn, wheat middlings with ground screenings not exceeding mill run, ground puffed rice, ground puffed wheat, cottonseed meal, oat meal mill by-product (oat middlings, oat hulls, oat shorts) and $\frac{1}{2}$ of 1% salt.	As certified, -----	2660
4.34	-----	10.25	-----	49 41			
4.21	3.25	8.14	8.00	65 00	Ground corn, crushed oats, oat meal mill by-product (oat middlings, oat hulls, oat shorts) and $\frac{1}{2}$ of 1% salt.	As certified, -----	3539
3.57	3.25	6.60	8.00	2 80	Ground corn, crushed oats, oat meal mill by-product (oat middlings, oat hulls, oat shorts) and $\frac{1}{2}$ of 1% salt.	As certified, -----	2955
3.89	-----	7.37	-----	60 50			

TABLE IV.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled at	Moisture.	Protein.	
				Found.	Guaranteed.
3449	Sterling Feed -----	Gettysburg, J. W. McIlhenny.	Per ct. 8.77	Per ct. 12.75	Per ct. 10.00
2561	Sterling Feed, -----	Phillipsburg, J. O. Reed,	8.32	11.75	10.00
		Average, -----	8.54	12.25	-----
2952	Victor Feed, -----	Llanerch, S. H. Moore, --	10.10	10.81	8.00
3231	White Diamond Feed, -----	Sharon, Lurie Brothers, --	12.27	9.69	8.00
3063	White Diamond Feed, -----	Waynesburg, Waynesburg Milling Co.	10.31	10.19	8.00
		Average, -----	11.29	9.94	-----
3064	ROBBINS MILLING CO., WILKES- BARRE, PA. Stock Feed,* -----	Wilkes-Barre, Robbins Mill- ing Co.	9.14	14.56	-----

*Not registered.

FEEDING STUFFS COLLECTED IN 1917.—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct. 4.38	Per ct. 3.25	Per ct. 10.94	Per ct. 10.00	\$ 2 85	Ground corn, hominy feed, ground barley, wheat flour, wheat middlings with ground screenings not exceeding mill run, cottonseed meal, ground puffed rice, ground puffed wheat, oat meal mill by-product (oat middlings, oat hulls, oat shorts), and $\frac{1}{2}$ of 1% salt.	As certified, -----	3449
4 36	3.25	9.67	9.00	2 10	Ground corn, hominy feed, ground barley, wheat flour, ground Kaffir corn, wheat middlings with ground screenings not exceeding mill run, ground puffed rice, ground puffed wheat, cottonseed meal, oat meal mill by-product (oat middlings, oat hulls, oat shorts) and $\frac{1}{2}$ of 1% salt.	As certified, -----	2561
4.37	-----	10.30	-----	2 48			
4.70	3.00	8.19	12.00	2 70	Ground corn, hominy feed, oat meal mill by-product (oat middlings, oat hulls, oat shorts) and $\frac{1}{2}$ of 1% salt.	As certified, -----	2952
1.83	3.25	8.63	9.00	2 90	Ground corn, hominy feed, corn feed meal, by-product from manufacture of hominy and corn meal by degerminator process with partial extraction of oil, oat meal mill by-product (oat middlings, oat shorts, oat hulls) and $\frac{1}{2}$ of 1% salt.	As certified, -----	3231
4.00	3.25	10.22	9.00	2 90	Ground corn, hominy feed, corn feed meal, by-product from manufacture of hominy and corn meal by degerminator process with partial extraction of oil, oat meal mill by-product (oat middlings, oat hulls, oat hulls) and $\frac{1}{2}$ of 1% salt.	As certified, -----	3063
2.92	-----	9.42	-----	2 90			
5.04	-----	8.03	-----	3 50	Alfalfa, brown middlings, hominy, cracked corn, crushed oats, oil meal and salt.	As certified, -----	3604

TABLE IV.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled at	Moisture.	Protein.	
				Found.	Guaranteed.
2794	S. F. SCATTERGOOD & CO., PHILADELPHIA, PA. Scattergood Stock Feed, -----	Gap, C. E. Brackbill, ---	Per ct. 9.04	Per ct. 10.94	Per ct. 10.00
3012	Scattergood Stock Feed, -----	Palmira, Early & Detweller.	9.68	11.75	10.00
2619	Scattergood Stock Feed, -----	Florin, J. N. Hershey, --	8.34	10.13	10.00
2506	Scattergood Stock Feed, -----	Harrisburg, Hoffer & Garman.	8.97	11.25	10.00
		Average, -----	9.00	11.02	-----
3458	THE SUGARINE CO., PEORIA, ILL. Sueo Stock Feed,* -----	Gettysburg, C. M. Wolf,	8.20	14.06	10.00
3439	THE OTTO WEISS ALFALFA STOCK FOOD CO., WICHITA, KANS. Otto Weiss Stock Feed, -----	Pittsburgh, The I. W. Scott Co.	8.73	14.75	11.00
2572	WESTERN GRAIN PRODUCTS CO., HAMMOND, IND. Calumet Stock Feed, -----	Philipsburg, Center Milling Co.	10.03	11.94	10.00
3347	PROPRIETARY STOCK, HORSE AND MULE FEEDS WITH MOLASSES. ALFALFA FEEDS MILLS, PHILA- DELPHIA, PA. Keystone Alfalfa Horse Feed,* -----	Philadelphia. Charles Schaal	19.47	10.41	9.00

*Not registered.

FEEDING STUFFS COLLECTED IN 1917.—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct. 4.93	Per ct. 4.00	Per ct. 9.47	Per ct. 9.00	\$ 1 90	Wheat middlings, corn meal, hominy feed, brewers dried grains, oat meal mill by-product (oat middlings, oat hulls, oat shorts) and 1% table salt.	As certified, -----	2794
6.37	4.00	10.93	9.00	2 50	Wheat middlings, corn meal, hominy feed, brewers dried grains, oat meal mill by-product (oat middlings, oat hulls, oat shorts) and 1% table salt.	As certified, -----	3012
4.58	4.00	9.41	9.00	41 00	Wheat middlings, corn meal, hominy feed, brewers dried grains, oat meal mill by-product (oat middlings, oat hulls, oat shorts) and 1% table salt.	Wheat middlings, corn meal, hominy feed, oat middlings, oat hulls, oat shorts and salt.	2619
5.47	4.00	11.29	9.00	1 60	Wheat middlings, corn meal, hominy feed, brewers dried grains, oat meal mill by-product (oat middlings, oat hulls, oat shorts) and 1% table salt.	As certified, -----	2506
5.34	-----	10.27	-----	40 25			
6.86	3.50	10.64	9.00	2 85	Corn germ meal, corn feed meal, cottonseed meal, corn gluten feed, oat hulls, oat middlings, oat shorts and salt.	As certified, -----	3458
3.24	3.00	13.82	14.00	3 20	Alfalfa meal, corn chop, crushed oats, wheat bran and $\frac{3}{4}$ of 1% salt.	As certified, -----	3439
3.33	2.50	7.85	9.00	1 75	Ground corn, ground barley, wheat middlings with ground screenings not exceeding mill run, oat meal mill by-product (oat middlings, oat hulls, oat shorts) cottonseed meal, gluten feed and $\frac{1}{2}$ of 1% salt.	Ground corn, ground barley, wheat middlings with ground screenings not exceeding mill run, oat middlings, oat hulls, oat shorts, cottonseed meal, gluten feed, salt and ground grain screenings with trace small whole weed seeds.	2572
3.04	2.50	9.70	12.00	50 00	Cracked corn, oats, barley, ground oats, barley and flaxseed, cane molasses, $\frac{1}{2}$ of 1% salt and alfalfa.	Cracked corn, oats, barley, ground oats, barley and flaxseed, cane molasses, salt, alfalfa and large amount whole weed seeds.	3347

TABLE IV.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled at	Moisture.	Protein.	
				Found.	Guaranteed.
3398	ALFOCORN MILLING CO., E. ST. LOUIS, ILL. Alfocorn's Leader Horse and Mule Feed.	Philadelphia, C. G. Hause & Bro.	Per ct. 15.16	Per ct. 13.63	Per ct. 9.00
3392	Alfocorn's Leader Horse and Mule Feed.	Philadelphia, Fred L. Lemont.	13.14	11.61	9.00
2686	Alfocorn's Leader Horse and Mule Feed.	Greensburg, McFarland Supply Co.	15.92	9.57	9.00
2960	Alfocorn's Leader Horse and Mule Feed.	Llanerch, S. H. Moore, --	15.72	10.53	9.00
		Average, -----	14.98	11.34	-----
3442	Alfocorn's X-tra Oats Horse and Mule Feed.	Hays, John Lachman & Co.	15.64	11.06	9.00
3324	AMERICAN MILLING CO., PEORIA, ILL. Sucrene Horse and Mule Feed,* -----	Troy, Farmers & Consumers Commercial Union.	12.87	9.43	8.00
3366	Sucrene Horse and Mule Feed,* -----	Williamson, J. D. Goldsmith.	17.69	9.28	9.00
		Average, -----	15.28	9.36	-----
2962	Sucrene Horse Feed with Alfalfa, --	Upper Darby, V. E. Bond,	16.15	10.20	10.00
2870	Sucrene Horse Feed with Alfalfa, --	Braddock, Braddock Feed & Supply House.	13.54	11.81	10.00
3297	Sucrene Horse Feed with Alfalfa, --	Clearfield, Lauderbach-Zerby Co.	12.40	11.80	10.00
3430	Sucrene Horse Feed with Alfalfa, --	Philadelphia, Owen O'Brien Estate.	14.56	10.73	10.00
3056	Sucrene Horse Feed with Alfalfa, --	Washington, C. B. Ruch,	14.69	11.49	10.00
		Average, -----	14.26	11.21	-----
3050	Tip Top Horse Feed with Alfalfa, --	Elwood City, W. W. Davidson & Son.	16.92	12.29	10.00
2475	Tip Top Horse Feed with Alfalfa, --	Connellsville, Dull & Co.,	14.45	12.71	10.00
		Average, -----	15.68	12.50	-----

*Not registered.

FEEDING STUFFS COLLECTED IN 1917.—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct. 1.80	Per ct. 1.50	Per ct. 13.56	Per ct. 15.00	\$ 2 95	Corn, oats, alfalfa meal, molasses and $\frac{1}{2}$ of 1% salt.	As certified, -----	3398
2.60	1.50	11.90	15.00	2 75	Corn, oats, alfalfa meal, molasses and $\frac{1}{2}$ of 1% salt.	As certified, -----	3392
1.99	1.50	13.48	15.00	2 20	Corn, oats, alfalfa meal, molasses and $\frac{1}{2}$ of 1% salt.	Corn, oats, alfalfa meal, molasses, barley and salt.	2686
1.83	1.50	14.70	15.00	2 80	Corn, oats, alfalfa meal, molasses and $\frac{1}{2}$ of 1% salt.	As certified, -----	2960
2.06	-----	13.41	-----	2 68			
2.99	2.00	12.28	13.50	55 00	Corn, oats, alfalfa meal, molasses and $\frac{1}{2}$ of 1% salt.	As certified, -----	3442
3.72	2.50	11.73	12.00	3 00	Molasses, oat shorts, oat middlings, oat hulls, corn, oats, corn distillers dried grains and solubles and salt.	As certified, -----	3324
4.04	2.50	11.63	12.00	3.00	Molasses, oat shorts, oat middlings, oat hulls, corn, oats, corn distillers dried grains and solubles and salt.	As certified, -----	3366
3.88	-----	11.68	-----	3 00			
3.24	2.50	12.54	12.00	2 90	Molasses, alfalfa, corn, oats, barley, corn distillers solubles and salt.	Molasses, alfalfa, corn, oats, distillers corn solubles and salt.	2962
3.30	2.50	11.29	12.00	2 10	Molasses, alfalfa, corn, oats, barley, corn distillers solubles and salt.	As certified, -----	2870
4.03	2.50	10.37	12.00	60 00	Molasses, alfalfa, corn, oats, barley, corn distillers solubles and salt.	As certified, -----	3297
3.16	2.50	12.90	12.00	56 00	Molasses, alfalfa, corn, oats, barley, corn distillers solubles and salt.	Molasses, alfalfa, corn, oats, corn distillers solubles and salt.	3430
2.99	2.50	12.13	12.00	2 90	Molasses, alfalfa, corn, oats, barley, corn distillers solubles and salt.	As certified, -----	3056
3.34	-----	11.84	-----	54 80			
3.37	2.50	9.72	12.00	2 75	Molasses, alfalfa meal, corn, oats, corn distillers dried grains and solubles and salt.	As certified, -----	3050
3.75	2.50	12.40	12.00	2 00	Corn, molasses, oats, alfalfa, corn distillers dried grains and salt.	As certified, -----	2475
3.56	-----	11.06	-----	2 38			

TABLE IV.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled at	Moisture.	Protein.	
				Found.	Guaranteed.
3045	Tip Top Sugared Feed, -----	Ellwood City, W. W. Davidson & Son.	Per et. 14.64	Per et. 13.29	Per et. 12.60
2781	ARCADY FARMS MILLING CO., RONDOUT, ILL. Aready Horse Feed, -----	Lititz, Ehner Eby, -----	16.63	10.32	9.00
3051	J. J. BADENOCH CO., CHICAGO, ILL. Gloskoat Horse Feed, -----	Ellwood City, W. W. Davidson & Son.	17.18	11.06	10.00
3245	Gloskoat Horse Feed, -----	Monessen, J. A. Hagerson,	15.40	12.33	10.00
3238	Gloskoat Horse Feed, -----	Farrell, J. B. Roux, -----	17.98	11.41	10.00
		Average, -----	16.85	11.60	-----
2669	THE BIG FOUR MILLING CO., CLEVELAND, OHIO. Fouroate Horse and Mule Feed,* ----	Butler, Thompson & Glenn.	14.61	9.62	9-10
3425	H. B. CASSEL, PHILADELPHIA, PA. Special Horse Feed,* -----	Philadelphia, H. B. Cassel,	16.48	9.41	-----
3475	CLOVER LEAF MILLING CO., BUFFALO, N. Y. Peerless Horse Feed, -----	Altoona, C. Leibovitz, ----	14.88	13.54	9.00
3465	Peerless Horse Feed, -----	Altoona, Miller Bros., ----	15.03	13.92	9.00
		Average, -----	14.95	13.72	-----
2559	THE CORNO MILLS CO., ST. LOUIS, MO. Corno Sweet Feed, -----	Philipsburg, J. O. Reed, --	12.45	11.79	10.00
3223	THE ALBERT DICKINSON CO., CHICAGO, ILL. Oasis Horse Feed, -----	Juniata, R. I. Remaley, --	16.82	11.74	9.00
3381	Oasis Horse Feed, -----	Warren, Frank Trusler, --	14.56	12.58	9.00
		Average, -----	15.69	12.16	-----
2491	Hobby Horse Feed, -----	Scottdale, City Feed Store,	16.40	10.98	9.00
3033	Hobby Horse Feed, -----	New Castle, Fisher & Mingle.	15.88	12.58	8.00
2697	Hobby Horse Feed, -----	Greensburg, D. F. Kilgore, & Co.	15.30	11.50	9.00
		Average, -----	15.86	11.69	-----

*Not registered.

FEEDING STUFFS COLLECTED IN 1917.—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct. 4.90	Per ct. 2.50	Per ct. 12.93	Per ct. 14.00	\$ 2.35	Ground and bolted grain screenings, molasses, clipped oat by-product, cottonseed meal, corn distillers' dried grains and solubles and salt.	As certified, -----	3045
4.06	2.00	10.67	12.00	2.15	Cracked corn, oats, alfalfa, molasses and $\frac{1}{2}$ 1% salt.	As certified, -----	2781
2.29	2.00	11.88	12.00	2 75	Oats, corn and alfalfa flavored with molasses.	As certified, -----	3051
2.31	2.00	13.48	12.00	3 25	Corn, oats, alfalfa meal and molasses.	As certified, -----	3245
1.68	2.00	12.89	12.00	55 00	Oats, corn and alfalfa flavored with molasses.	As certified, -----	3233
2.09	-----	12.75	-----	58 33			
3.90	4-5	6.57	6-8	43 00	Flaked oats, flaked corn, bran and molasses.	As certified, -----	2669
3.30	-----	12.01	-----	48 00	Rolled oats, alfalfa meal and molasses.	As certified, -----	3425
1.64	1.50	14.26	14.00	3 00	Cracked corn, crushed oats, alfalfa meal, molasses and $\frac{1}{2}$ of 1% salt.	As certified, -----	3475
2.03	1.50	15.21	14.00	2.90	Cracked corn, crushed oats, alfalfa meal, molasses and $\frac{1}{2}$ of 1% salt.	As certified, -----	3465
1.84	-----	14.73	-----	2 95			
2.69	2.50	13.17	15.00	2 10	Whole oats, ground choice alfalfa, cracked corn, cottonseed meal and molasses.	As certified, -----	2559
2.22	1.50	11.02	15.00	3 25	Corn, oats, alfalfa meal and molasses.	As certified, -----	3223
2.79	1.50	10.14	15.00	3 20	Corn, oats, alfalfa meal and molasses.	As certified, -----	3381
2.51	-----	10.58	-----	3 23			
2.27	1.50	12.63	15.00	2 30	Corn, oats, barley, alfalfa meal and molasses.	Corn, oats, alfalfa meal and molasses.	2491
1.72	1.50	12.70	15.00	3 00	Corn, oats, alfalfa meal and molasses.	As certified, -----	3033
2.17	1.50	14.55	15.00	2.50	Corn, oats, alfalfa meal and molasses.	As certified, -----	2697
2.05	-----	13.31	-----	2 60			

TABLE IV.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled at	Moisture.	Protein.	
				Found.	Guaranteed.
2945	DIXIE MILLS CO., EAST ST. LOUIS, ILL. Diamond Horse and Mule Feed,* ----	Newtown Square, J. C. Rhodes Estate.	Per ct. 17.23	Per ct. 9.78	Per ct. 10.00
2460	Diamond Horse and Mule Feed,* ----	Huntingdon, L. S. Goodman & Son.	11.55	11.13	10.00
2857	Diamond Horse and Mule Feed,* ----	Titusville, Grange Milling Co.	14.06	10.75	10.00
		Average, -----	14.31	10.55	-----
2553	JOHN W. ESHELMAN, LANCASTER, PA. John W. Eshelman's Alfalfa Horse Feed.	Elizabethtown, Lehman & Wolgemuth.	16.77	11.08	10.00
2765	John W. Eshelman's Alfalfa Horse Feed.	Quarryville, Quarryville Farmers' Assn.	16.82	10.81	10.00
		Average, -----	16.79	10.95	-----
3498	John W. Eshelman's Horse Feed, ----	Lancaster, John W. Eshelman.	12.40	10.56	10.00
3497	Hamilton Horse Feed,* -----	Lancaster, John W. Eshelman.	16.06	9.76	10.00
3431	EXCELLO FEED MILLING CO., ST. JOSEPH, MO. Exeello Horse Feed, -----	Philadelphia, Charles Hieber & Co.	14.06	10.46	10.00
2515	FARAMEL MANUFACTURING CO., BUFFALO, N. Y. Faramel Horse Feed, -----	Bradford, Smith Bros., --	15.76	9.62	9.00
3038	GOLDEN GRAIN MILLING CO., EAST ST. LOUIS, ILL. Cornette Horse and Mule Feed, ----	New Castle, City Roller Mills.	12.12	11.03	10.00
2897	Golden Grain Horse and Mule Feed,--	Conshohocken, James Traey & Son.	12.49	10.02	10.00
8397	Mascot Horse and Mule Feed, ----	Philadelphia, C. G. Hause & Bro.	16.59	14.21	9.00
3432	Mascot Horse and Mule Feed, ----	Philadelphia, Chas. Hieber & Co.	14.24	10.85	9.00
3386	Mascot Horse and Mule Feed, ----	Philadelphia, Chas. H. Longcope.	14.52	12.09	9.00
		Average, -----	15.11	12.38	-----
3187	HALES & EDWARDS CO., CHICAGO, ILL. Greeno Feed, -----	Franklin, J. H. Lavery's Sons.	15.94	14.03	10.00
3491	Harvest Horse Feed, -----	Jeannette, Keystone Supply Co.	13.17	12.82	10.00
3065	Harvest Horse Feed, -----	Washington, Russell Bros.,	19.09	11.78	10.00
		Average, -----	16.13	12.30	-----

*Not registered.

FEEDING STUFFS COLLECTED IN 1917.—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct.	Per ct.	Per ct.	Per ct.	\$			
2.90	2.50	10.21	12.00	3 00	Ground alfalfa, corn, oats and sugar cane molasses.	As certified, -----	2945
2.93	2.50	10.40	12.00	2 15	Ground alfalfa, corn, oats and sugar cane molasses.	As certified, -----	2460
3.04	2.50	11.54	12.00	2 40	Ground alfalfa, corn, oats and sugar cane molasses.	As certified, -----	2857
2.96	-----	10.71	-----	2 52			
3.19	2.50	9.65	12.00	2 15	Molasses, alfalfa, corn, oats, barley and salt.	As certified, -----	2553
3.29	2.50	9.41	12.00	45 00	Molasses, alfalfa, corn, oats, barley, corn, distillers' solubles and salt.	As certified, -----	2765
3.24	-----	9.53	-----	44.00			
3.72	2.50	12.64	14.00	61.00	Alfalfa meal, cracked corn, rolled oats, $\frac{1}{2}$ of 1% per salt and cane molasses.	As certified, -----	3498
2.40	2.50	13.03	14.00	59 00	Cracked corn, crushed oats, alfalfa meal, molasses and $\frac{1}{2}$ of 1% salt.	As certified, -----	3497
2.84	3.00	11.89	15.00	58 00	Alfalfa meal, corn chops, crushed oats, cane molasses, linseed meal and salt.	As certified, -----	3431
4.31	4.00	7.07	6.00	2 60	Oats, corn, wheat bran and molasses.	Oats, corn, wheat bran, barley and molasses.	2515
2.26	1.50	15.70	16.00	56 00	Corn, oats, alfalfa meal, molasses and $\frac{1}{2}$ of 1% salt.	As certified, -----	3038
2.67	2.00	12.62	12.00	2.15	Corn, oats, alfalfa meal, molasses and $\frac{1}{2}$ of 1% salt.	As certified, -----	2897
2.27	1.50	17.47	18.00	2 95	Corn, oats, alfalfa meal, molasses and $\frac{1}{2}$ to 1% salt.	As certified, -----	3397
2.24	1.50	17.49	18.00	50 00	Corn, oats, alfalfa meal, molasses and $\frac{1}{2}$ to 1% salt.	As certified, -----	3432
2.32	1.50	17.05	18.00	2.90	Corn, oats, alfalfa meal, molasses and $\frac{1}{2}$ to 1% salt.	As certified, -----	3386
2.28	-----	17.33	-----	56.00			
0.98	0.50	15.94	26.00	2 10	Alfalfa and molasses, --	As certified, -----	3187
2.31	2.00	14.18	15.00	60 00	Alfalfa, molasses, cracked corn, oats and barley.	As certified, -----	3491
2.15	2.00	11.47	15.00	2 75	Alfalfa, molasses, cracked corn, oats and barley.	As certified, -----	3065
2.23	-----	12.82	-----	57 50			

TABLE IV.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled at	Moisture.	Protein.	
				Found.	Guaranteed.
3046	DWIGHT E. HAMLIN, PITTSBURGH, PA. H. & S. Horse, Mule and Dairy Feed,	Ellwood City, W. W. Davidson & Son.	Per ct. 19.12	Per ct. 14.53	Per ct. 14.00
3042	H. & S. Horse, Mule and Dairy Feed,	New Castle, F. W. Hutcheson & Son.	14.78	17.21	14.00
		Average, -----	16.95	15.87	-----
2594	HOWARD H. HANKS CO., CHICAGO, ILL. Kingfalfa Horse Feed,* -----	New Kensington, A. H. Klugh.	12.73	11.53	9.00
2526	THE H-O COMPANY, BUFFALO, N. Y. The H-O Co.'s Horse Feed with Alfalfa.	Bradford, C. L. Douglas,	14.10	12.01	11.00
2617	W. S. HOGE & BROTHIER, WASHINGTON, D. C. Hoge's Omega Horse Feed,* -----	Conshohocken, James Traey & Son.	16.19	9.29	10.00
2626	J. H. HORNBY & SONS, NEW BRIGHTON, PA. Hornby's Alfalfa Horse Feed, -----	New Brighton, J. H. Hornby & Sons.	18.32	12.47	10.00
2646	Hornby's Alfalfa Horse Feed, -----	New Brighton, M. H. Stager.	17.47	12.06	10.00
		Average, -----	17.89	12.27	-----
2453	INTERNATIONAL SUGAR FEED CO., MINNEAPOLIS, MINN. Dan Patch Horse Feed, -----	Huntingdon, Huntingdon Milling Co.	14.99	11.75	9.00
3340	KORNFALFA FEED MILLING CO., KANSAS CITY, MO. Kay Horse and Mule Feed, -----	Philadelphia, Ezl. Dunwoody Co.	9.46	11.77	9.00
3048	CHARLES A. KRAUSE MILLING CO., MILWAUKEE, WIS. Badger Evergreen Feed, -----	Ellwood City, W. W. Davidson & Son.	20.32	10.65	12.00
3198	Badger Horse Feed, -----	Pottsville, Hewes & McNamara.	20.20	10.53	10.00
2716	Badger Horse Feed, -----	York, P. A. & S. Small Co.	18.79	10.14	10.00
		Average, -----	19.49	10.34	-----
3517	Blue Top Horse Feed, -----	Manheim, Lancaster County Farmers' Assn.	14.90	10.72	10.00
3256	Cream City Horse Feed, -----	Hazleton, Geo. W. Engle,	16.80	10.94	10.00

*Not registered.

FEEDING STUFFS COLLECTED IN 1917.—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct. 3.26	Per ct. 3.50	Per ct. 12.67	Per ct. 16.00	\$ 2 75	Crushed flaxseed meal, old process oil meal, alfalfa meal, dried brewers' and rye distillers' grains, pure sugar cane syrup and $\frac{3}{4}$ of 1% salt.	As certified, -----	3046
3.52	3.50	12.43	16.00	2.90	Crushed flaxseed meal, old process oil meal, alfalfa meal, dried brewers' and rye distillers' grains, pure sugar cane syrup and $\frac{3}{4}$ of 1% salt.	As certified, -----	3042
3.39	-----	12.55	-----	56 50			
2.09	2.00	13.58	15.00	2.15	Alfalfa meal, cracked corn, oats and syrup.	As certified, -----	2594
3.16	2.00	9.69	12.00	2 30	Alfalfa meal, molasses, wheat middlings, ground corn, corn gluten feed, oat hulls, shorts and salt $\frac{1}{2}$ of 1%.	As certified, -----	2526
1.90	2.00	12.85	15.00	2 15	Corn, oats, alfalfa and cane molasses.	As certified, -----	2617
2.05	2.00	12.15	12.00	2 10	Corn, oats, alfalfa meal and molasses.	As certified, -----	2626
2.13	2.00	12.57	12.00	2 15	Corn, oats, alfalfa meal and molasses.	As certified, -----	2646
2.09	-----	12.36	-----	2 13			
2.95	3.00	14.99	15.00	40 00	Oats, barley, cracked corn, ground alfalfa, cane molasses and salt.	Oats, cracked corn, ground alfalfa, cane molasses and salt.	2453
1.71	1.50	18.86	15.00	48 00	Corn, oats, alfalfa and molasses.	As certified, -----	3340
1.23	0.50	19.92	30.00	2 50	Alfalfa, molasses and salt.	As certified, -----	3048
2.72	2.00	10.15	12.00	3 00	Corn, oats, alfalfa, molasses and salt.	As certified, -----	3198
1.91	2.00	11.94	12.00	2 30	Corn, oats, alfalfa, molasses and salt.	As certified, -----	2716
2.32	-----	11.04	-----	2 65			
2.13	1.00	15.21	16.00	58 00	Corn, oats, alfalfa meal, molasses and salt.	As certified, -----	3517
1.95	1.50	13.85	14.00	3 25	Alfalfa meal, molasses, corn, oats and salt.	As certified, -----	3256

TABLE IV.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled at	Moisture.	Protein.	
				Found.	Guaranteed.
3556	Cream City Horse Feed, -----	Homer City, Thomas K. George.	Per et. 16.31	Per et. 10.68	Per et. 10.00
3206	Cream City Horse Feed, -----	Minersville, E. F. Krause,	21.12	10.89	10.00
3478	Cream City Horse Feed, -----	Altoona, H. H. Langdon,	14.35	10.59	10.00
2842	Cream City Horse Feed, -----	Carlisle, L. L. Rice, -----	17.56	10.59	10.00
3071	Cream City Horse Feed, -----	Houston, W. M. Templeton & Sons.	21.62	9.85	10.00
		Average, -----	17.96	10.59	-----
3412	Creseent Horse Feed, -----	Philadelphia, Walton Brothers.	14.69	11.13	10.00
2542	Krause Horse Feed, -----	Swatara, J. B. Curry Est.	15.06	10.30	10.00
2906	Pul-Mor Horse Feed, -----	Pottstown, S. Clouse & Co.	18.64	10.48	9.00
3329	Pul-Mor Horse Feed, -----	Philadelphia, Ezl. Dunwoody Co.	12.58	10.95	9.00
3385	Pul-Mor Horse Feed, -----	Philadelphia, Charles H. Longeope.	13.86	11.44	9.00
3428	Pul-Mor Horse Feed, -----	Philadelphia, Owen O'Brien Estate.	15.15	11.42	9.00
2819	Pul-Mor Horse Feed, -----	Tyrone, Tyrone Milling Co.	16.44	10.39	9.00
3413	Pul-More Horse Feed, -----	Philadelphia, Walton Brothers.	14.10	10.43	9.00
		Average, -----	15.12	10.85	-----
2328	LANCASTER MILL & ELEVATOR CO., LANCASTER, PA. Challenge Alfalfa Horse Feed, -----	Philadelphia, Ezl. Dunwoody Co.	12.19	10.65	9.00
3387	Challenge Alfalfa Horse Feed, -----	Philadelphia, Charles H. Longeope.	15.38	10.49	9.00
		Average, -----	13.78	10.57	-----
3414	Conestoga Horse Feed, -----	Philadelphia, Walton Brothers.	14.51	11.19	9.00
3528	Laneaster Horse Feed, -----	Paoli, Edward F. Bracken,	14.48	10.40	10.00
3417	Laneaster Horse Feed, -----	Philadelphia, David McMullin.	13.65	10.95	10.00
		Average, -----	14.06	10.68	-----
3393	Ford's Speeial Horse Feed, -----	Philadelphia, Fred L. Lemont.	12.29	10.51	-----
3418	Ford's Special Horse Feed, -----	Philadelphia, David McMullin.	12.73	12.10	8.00
		Average, -----	12.51	11.31	-----

FEEDING STUFFS COLLECTED IN 1917.—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct. 2.02	Per ct. 1.50	Per ct. 12.94	Per ct. 14.00	\$ 3 00	Alfalfa meal, molasses, corn, oats and salt.	As certified, -----	3556
1.79	1.50	12.05	14.00	3 00	Alfalfa meal, molasses, corn, oats and salt.	As certified, -----	3206
3.29	1.50	14.73	14.00	2 90	Alfalfa meal, molasses, corn, oats and salt.	As certified, -----	3478
2.15	1.50	11.36	14.00	2 40	Alfalfa meal, molasses, corn, oats and salt.	As certified, -----	2842
2.17	1.50	12.64	14.00	2 80	Alfalfa meal, molasses, corn, oats and salt.	As certified, -----	3071
2.23	-----	12.92	-----	2 89			
2.60	1.50	13.49	16.00	49 00	Corn, oats, alfalfa, molasses, salt and clipped oat by-product.	Corn, oats, alfalfa, oat middlings, oat hulls, oat shorts, molasses and salt.	3412
2.61	2.50	10.36	10.00	2 05	Corn, oats, alfalfa, molasses and salt.	As certified, -----	2542
2.63	1.00	11.06	16.00	2 10	Corn, oats, alfalfa meal, molasses, salt and clipped oat by-product.	Corn, oats, alfalfa meal, molasses, salt, clipped oat by-product and trace small whole weed seeds.	2906
2.72	1.00	14.87	16.00	48 00	Corn, oats, alfalfa meal, molasses, salt and clipped oat by-product.	Corn, oats, alfalfa meal, oat middlings, oat shorts, oat hulls, molasses and salt.	3329
1.77	1.00	16.50	16.00	2 80	Corn, oats, alfalfa meal, molasses, salt and clipped oat by-product.	As certified, -----	3385
1.86	1.00	16.51	16.00	50 00	Corn, oats, alfalfa meal, molasses and salt.	Corn, oats, oat hulls, alfalfa meal, molasses and salt.	3428
2.11	1.00	12.67	16.00	47 00	Corn, oats, alfalfa meal, molasses, salt and clipped oat by-product.	As certified, -----	2819
1.69	1.00	16.56	16.00	46 00	Corn, oats, alfalfa meal, molasses, salt and clipped oat by-product.	Corn, oats, alfalfa meal, molasses, oat middlings, oat hulls, oat shorts and salt.	3413
2.13	-----	14.69	-----	48 17			
2.89	1.50	15.15	12.00	52 00	Cracked corn, oats, alfalfa meal, molasses and $\frac{1}{2}$ of 1% salt.	As certified, -----	3328
2.93	1.50	13.28	12.00	2 90	Cracked corn, oats, alfalfa meal, molasses and $\frac{1}{2}$ of 1% salt.	As certified, -----	3387
2.91	-----	14.21	-----	55 00			
2.87	1.50	12.60	12.00	50 00	Cracked corn, crushed oats, alfalfa, hay meal, molasses and $\frac{1}{2}$ of 1% salt.	As certified, -----	3414
3.72	2.50	13.89	14.00	64 00	Alfalfa, hay meal, cracked corn, rolled oats, $\frac{1}{2}$ of 1% salt and cane molasses.	As certified, -----	3528
3.32	2.50	13.00	14.00	54 00	Alfalfa, hay meal, rolled oats, cracked corn, salt and cane molasses.	As certified, -----	3417
3.52	-----	13.44	-----	59 59			
4.53	-----	10.31	-----	2.75	Alfalfa, oats and molasses.	As certified, -----	3393
5.20	2.00	10.85	14.00	54 00	Oats, corn, molasses, alfalfa and hay meal.	As certified, -----	3418
4.87	-----	10.58	-----	54.50			

TABLE IV.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled at	Moisture.	Protein.	
				Found.	Guaranteed.
3508	Red Rose Horse Feed,* -----	Lancaster, Lancaster Mill & Elevator Co.	Per ct. 13.13	Per ct. 10.24	Per ct. 10.00
	THE NICKEL PLATE ELEVATOR CO., CLEVELAND, OHIO.				
3171	Alfalfa Molasses Horse Feed, -----	Oil City, New Model Milling Co.	13.79	10.24	10.00
3170	Economy Molasses Horse Feed, -----	Oil City, New Model Milling Co.	13.13	9.45	10.00
	NOWAK MILLING CORPORATION, BUFFALO, N. Y.				
3268	Domino Horse Feed with Alfalfa, ----	Lehighton, George D. Kresge.	13.37	10.78	9.00
3352	Domino Horse Feed with Alfalfa, ----	Chambersburg, J. H. Smith & Sons.	15.13	11.38	9.00
		Average, -----	14.25	11.08	-----
2622	Domino Vim-O-Lene Horse Feed, -----	Elizabeth town, Muth Brothers.	16.47	10.52	8.00
	OATFALFA MILLING CO., PHILADELPHIA, PA.				
3529	Oatfalfa Horse Feed, -----	Paoli, Edward F. Braeken.	13.53	10.13	10.00
	OMAHA ALFALFA MILLING CO., OMAHA, NEBR.				
2599	Omaha Special Horse and Mule Feed.	Norristown, Simpson Brothers.	14.58	10.38	10.00
2713	Omaha Special Horse and Mule Feed.	New Stanton, James F. Stanton & Sons.	15.57	11.44	10.00
3242	Omaha Special Horse and Mule Feed.	Charleroi, Western Flour Co.	15.54	12.36	10.00
		Average, -----	15.23	11.39	-----
2742	Peerless Alfalfa Horse Feed, -----	York, Anderson Brothers & Co.	14.47	10.58	10.00
2953	Peerless Alfalfa Horse Feed, -----	Llanerch, S. H. Moore, --	16.68	10.51	10.00
2600	Peerless Alfalfa Horse Feed, -----	Norristown, Simpson Brothers.	15.20	10.85	10.00
		Average, -----	15.44	10.65	-----
2954	Perfection Horse Feed, -----	Llanerch, S. H. Moore, --	13.89	11.81	10.00

*Not registered.

FEEDING STUFFS COLLECTED IN 1917.—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct.	Per ct.	Per ct.	Per ct.	\$			
4.70	3.00	9.47	12.00	55 00	Crushed oats, cracked corn, alfalfa meal, molasses and $\frac{1}{2}$ of 1% salt.	As certified, -----	3508
3.19	3.00	12.90	12.00	2 90	Alfalfa meal, crimped oats and barley, cracked corn, molasses and salt.	Alfalfa meal, crimped oats, cracked corn, molasses, salt and small amount ground grain screenings.	3171
3.92	3.00	9.54	7.80	3 10	Crimped oats, barley, cracked corn, oat middlings, oat hulls, molasses and salt.	Crimped oats, cracked corn, oat middlings, oat hulls, molasses, salt, small amount ground screenings and small amount whole weed seeds.	3170
2.91	2.00	14.01	12.00	3 00	Cracked corn, crushed oats, whole oats, ground alfalfa, molasses and salt $\frac{3}{4}$ of 1%.	As certified, -----	3268
2.48	2.00	13.07	12.00	3 00	Cracked corn, crushed oats, whole oats, ground alfalfa, molasses and salt $\frac{3}{4}$ of 1%.	As certified, -----	3352
2.76	-----	13.54	-----	3 00			
4.27	2.60	6.16	9.00	48 00	Crushed oats, cracked corn, corn feed meal, wheat bran, molasses and salt $\frac{3}{4}$ of 1%.	As certified, -----	2622
4.41	2.50	11.39	12.00	64 00	Alfalfa meal, ground corn, crushed oats, cottonseed meal, molasses, oatmeal mill by-product (oat middlings, oat hulls, oat shorts) and $\frac{1}{2}$ of 1% salt.	Alfalfa meal, ground corn, crushed oats, molasses, oat middlings, oat hulls, oat shorts and salt.	3529
2.18	2.60	11.86	12.00	42 00	Corn, oats, alfalfa meal and molasses.	As certified, -----	2599
1.95	2.00	12.64	12.00	2 40	Corn, oats, alfalfa meal and molasses.	As certified, -----	2713
2.45	3.00	12.34	12.00	2 70	Corn, oats, alfalfa meal and molasses.	As certified, -----	3242
2.53	-----	12.28	-----	48 00			
2.21	2.60	10.07	12.00	2 00	Corn, oats, alfalfa meal and molasses.	Corn, oats, alfalfa meal, barley and molasses.	2742
3.10	2.60	9.97	12.00	2.80	Corn, oats, alfalfa meal and molasses.	As certified, -----	2953
2.40	2.00	10.17	12.00	44 00	Corn, oats, alfalfa meal and molasses.	Corn, oats, alfalfa meal, barley and molasses.	2600
2.57	-----	10.07	-----	46 67			
2.57	2.60	10.36	12.00	2.80	Corn, oats, alfalfa meal and molasses.	As certified, -----	2954

TABLE IV.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled at	Moisture.	Protein.	
				Found.	Guaranteed.
	THE PARK & POLLARD CO., BOSTON, MASS.		Per ct.	Per ct.	Per ct.
3550	The Park & Pollard Co. Horse Feed,	West Chester, T. S. Golden.	12.59	10.39	9.00
2630	The Park & Pollard Co. Horse Feed,	Phoenixville, W. H. Lenhard.	15.36	10.33	9.00
3227	The Park & Pollard Co. Horse Feed,	Sharon, J. M. Porter, ----	18.24	11.35	9.00
		Average, -----	15.39	10.69	-----
2495	F. V. PERRY, SCOTTDALÉ, PA. Alfalfa Horse Feed with Molasses,* --	Scottdale, F. V. Perry, --	15.72	10.20	10-12
	M. C. PETERS MILL CO., OMAHA, NEBR.				
3422	Peters' Arab Horse Feed, -----	Philadelphia, S. D. Hunsberger Est.	12.67	13.46	10.00
3243	Peters' Arab Horse Feed, -----	Charleroi, R. O. Mountser,	13.44	12.36	10.00
		Average, -----	13.05	12.91	-----
3424	Peters' Economy Horse Feed, -----	Philadelphia, S. D. Hunsberger Est.	12.48	14.02	10.00
3248	Peters' King Corn Horse and Mule Feed.	Monessen, J. A. Hagerson,	14.86	12.20	10.00
3423	Peters' King Corn Horse and Mule Feed.	Philadelphia, S. D. Hunsberger Est.	15.33	13.14	10.00
		Average, -----	15.09	12.67	-----
3421	Peters' Rabbit Mule Feed, -----	Philadelphia, S. D. Hunsberger Est.	13.40	13.22	10.00
	POSTUM CEREAL CO., LTD., BATTLE CREEK, MICH.				
2548	C XX Feed, -----	Elizabeth town, Muth Brothers.	8.30	17.88	15.00
	PRAIRIE STATE MILLING CO., CHICAGO, ILL.				
2681	Emerald Horse Feed, -----	Carnegie, Richey & McFarland.	17.33	12.38	10.00
	THE QUAKER OATS CO., CHICAGO, ILL.				
3444	Green Cross Horse Mixed Feed with Molasses.*	Hays, Charles F. Adamitz,	14.23	14.23	10.00
2776	Green Cross Horse Mixed Feed with Molasses.*	Somerset, H. C. Becrits' Sons.	14.49	11.64	10.00
3249	Green Cross Horse Mixed Feed with Molasses.*	Belleverson, H. R. Croushore.	14.15	10.19	10.00

*Not registered.

FEEDING STUFFS COLLECTED IN 1917.—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct.	Per ct.	Per ct.	Per ct.	\$			
2.61	1.50	11.83	12.00	3 00	Corn, oats, alfalfa, molasses and salt.	As certified, -----	3550
2.43	1.50	9.92	12.00	2 25	Alfalfa, corn, oats, molasses and salt.	As certified, -----	2650
1.92	2.50	13.61	12.00	2.75	Cracked corn, oats, barley, alfalfa and molasses.	As certified, -----	3227
2.32	-----	11.78	-----	2.67			
3.59	3-5	6.65	9-11	2 40	Cracked corn, rolled oats, bran, alfalfa, molasses and salt.	As certified, -----	2495
3.90	2.00	11.23	15.00	63 00	Corn, oats, alfalfa and molasses.	As certified, -----	3422
2.45	2.00	11.09	15.00	3 35	Corn, oats, alfalfa and molasses.	As certified, -----	3243
3.18	-----	11.46	-----	65.00			
4.47	2.00	15.30	20.00	47.50	Oats, alfalfa and molasses.	As certified, -----	3424
2.71	1.50	15.16	18.00	3 25	Corn, oats, alfalfa and molasses.	As certified, -----	3248
2.44	1.50	16.54	18.00	53 50	Corn, oats, alfalfa and molasses.	As certified, -----	3423
2.58	-----	15.85	-----	59 25			
3.01	1.50	14.17	18.00	52 00	Corn, oats, alfalfa and molasses.	As certified, -----	3421
4.40	2.00	14.79	24.60	1 20	Treated wheat, wheat bran and molasses.	Roasted wheat, roasted wheat bran and molasses.	2548
2.19	2.00	7.49	12.00	2 25	Cracked corn, oats, barley, alfalfa meal and molasses.	As certified, -----	2881
2.80	2.50	13.97	12.00	2 90	Alfalfa meal, ground corn, crushed oats, molasses, cottonseed meal, oatmeal mill by-product (oat midlings oat hulls, oat shorts) and $\frac{1}{2}$ of 1% salt.	Alfalfa meal, ground corn, crushed oats, molasses, oat midlings, oat hulls, oat shorts and salt.	3444
2.63	2.50	13.02	12.00	2.30	Alfalfa meal, ground corn, crushed oats, molasses, cottonseed meal, oatmeal mill by-product (oat midlings oat hulls, oat shorts) and $\frac{1}{2}$ of 1% salt.	As certified, -----	2776
2.61	2.50	11.58	12.00	3 00	Alfalfa meal, ground corn, crushed oats, molasses, cottonseed meal, oatmeal mill by-product (oat midlings oat hulls, oat shorts) and $\frac{1}{2}$ of 1% salt.	Alfalfa meal, ground corn, crushed oats, molasses, oat midlings, oat hulls, oat shorts and salt.	3249

TABLE IV.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled at	Moisture.	Protein.	
				Found.	Guaranteed.
3330	Green Cross Horse Mixed Feed with Molasses.*	Philadelphia, Ezl. Dunwoody Co.	Per et. 11.58	Per et. 11.19	Per et. 10.00
3287	Green Cross Horse Mixed Feed with Molasses.*	Monongahela, D. E. Gamble.	13.53	9.90	10.00
2703	Green Cross Horse Mixed Feed with Molasses.*	Latrobe, Golde Flour & Feed Store.	13.29	10.67	10.00
3541	Green Cross Horse Mixed Feed with Molasses.*	West Chester, C. C. Hipple & Son.	12.78	9.92	10.00
3194	Green Cross Horse Mixed Feed with Molasses.*	Pottsville, Jalappa Grain Elevator.	15.29	9.69	10.00
3572	Green Cross Horse Mixed Feed with Molasses.*	Zelienople, J. J. Kennedy,	14.29	10.20	10.00
2850	Green Cross Horse Mixed Feed with Molasses.*	Titusville, Kerr Hill Milling Co., Ltd.	14.75	10.69	10.00
2635	Green Cross Horse Mixed Feed with Molasses.*	West Bridgewater, W. W. McCullough.	15.31	10.75	10.00
3525	Green Cross Horse Mixed Feed with Molasses.*	Blairsville, George J. New.	10.79	10.00	10.00

*Not registered.

FEEDING STUFFS COLLECTED IN 1917.—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct. 2.56	Per ct. 2.50	Per ct. 13.11	Per ct. 12.00	\$ 53 00	Alfalfa meal, ground corn, crushed oats, molasses, cottonseed meal, oatmeal mill by-product (oat middlings oat hulls, oat shorts) and $\frac{1}{2}$ of 1% salt.	As certified, -----	3330
2.90	2.50	11.61	12.00	2 85	Alfalfa meal, ground corn, crushed oats, molasses, cottonseed meal, oatmeal mill by-product (oat middlings oat hulls, oat shorts) and $\frac{1}{2}$ of 1% salt.	Alfalfa meal, ground corn, crushed oats, molasses, oat middlings, oat hulls, oat shorts and salt.	3287
2.91	2.50	10.83	12.00	2 25	Alfalfa meal, ground corn, crushed oats, molasses, cottonseed meal, oatmeal mill by-product (oat middlings oat hulls, oat shorts) and $\frac{1}{2}$ of 1% salt.	Alfalfa meal, ground corn, crushed oats, molasses, oat middlings, oat hulls, oat shorts and salt.	2703
2.95	2.50	12.32	12.00	64 00	Alfalfa meal, ground corn, crushed oats, molasses, cottonseed meal, oatmeal mill by-product (oat middlings oat hulls, oat shorts) and $\frac{1}{2}$ of 1% salt.	As certified, -----	3541
2 78	2.50	11.73	12.00	2.75	Alfalfa meal, ground corn, crushed oats, molasses, cottonseed meal, oatmeal mill by-product (oat middlings oat hulls, oat shorts) and $\frac{1}{2}$ of 1% salt.	As certified, -----	3194
2.84	2.50	12.81	12.00	58 00	Alfalfa meal, ground corn, crushed oats, molasses, cottonseed meal, oatmeal mill by-product (oat middlings oat hulls, oat shorts) and $\frac{1}{2}$ of 1% salt.	As certified, -----	3572
2.24	2.50	11.12	12.00	3 00	Ground corn, crushed oats, molasses, cottonseed meal, oatmeal mill by-product (oat middlings, oat hulls, oat shorts) and $\frac{1}{2}$ of 1% salt.	As certified, -----	2850
2.54	2.50	11.03	12.00	2.20	Alfalfa meal, ground corn, crushed oats, molasses, cottonseed meal, oatmeal mill by-product (oat middlings oat hulls, oat shorts) and $\frac{1}{2}$ of 1% salt.	As certified, -----	2635
3.33	2.50	13.46	12.00	60 00	Alfalfa meal, ground corn, crushed oats, molasses, cottonseed meal, oatmeal mill by-product (oat middlings oat hulls, oat shorts) and $\frac{1}{2}$ of 1% salt.	Alfalfa meal, ground corn, crushed oats, molasses, oat middlings, oat hulls, oat shorts and salt.	3525

TABLE IV.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled at	Moisture.	Protein.	
				Found.	Guaranteed.
2614	Green Cross Horse Mixed Feed with Molasses.*	Conshohoecken, S. & J. Pugh.	Per ct. 15.96	Per et. 10.40	Per et. 10.00
3240	Green Cross Horse Mixed Feed with Molasses.*	Charleroi, Western Flour Co.	16.24	9.71	10.00
3482	Green Cross Horse Mixed Feed with Molasses.*	Derry, L. A. Wheeler, ---	12.79	10.59	10.00
		Average, -----	13.96	10.65	-----
2649	RALSTON PURINA CO., INC., ST. LOUIS, MO. Good Luck Feed with Molasses, ---	Phoenixville, W. H. Lenhard.	14.88	10.80	8.00
2610	O. K. Feed with Molasses, -----	Norristown, W. C. Duffield,.	17.49	10.43	9.00
2609	Protena Horse Feed, -----	Norristown, W. C. Duffield.	17.42	8.94	9.00
3341	Protena Horse Feed, -----	Philadelphia, Ezl. Dunwoody Co.	20.06	10.56	9.00
3433	Protena Horse Feed, -----	Philadelphia, Charles Hieber & Co.	15.36	11.49	9.00
		Average, -----	17.61	10.33	-----
2575	Purina Feed with Molasses, -----	Kittanning, Wm. Gates Estate.	14.14	10.32	8.30
2391	Purina Feed with Molasses, -----	Philadelphia, A. White & Son.	14.72	10.82	9.30
		Average, -----	14.43	10.57	-----
2577	Purina O'Molene Feed, -----	Kittanning, Wm. Gates Estate.	14.06	10.02	9.70
3420	Purina O'Molene Feed, -----	Philadelphia, David McMullin.	14.28	12.62	9.70
3390	Purian O'Molene Feed, -----	Philadelphia, A. White & Son.	13.12	11.07	9.70
		Average, -----	13.82	11.24	-----
3336	Purina Sweet Feed, -----	Philadelphia, Ezl. Dunwoody Co.	12.48	11.36	9.00

*Not registered.

FEEDING STUFFS COLLECTED IN 1917.—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct.	Per ct.	Per ct.	Per ct.	\$			
2.67	2.50	11.30	12.00	2.20	Alfalfa meal, ground corn, crushed oats, molasses, cottonseed meal, oatmeal mill by-product (oat mid-dlings), oat hulls, oat shorts) and $\frac{1}{2}$ of 1% salt.	Alfalfa meal, ground corn, crushed oats, molasses, oat mid-dlings, oat hulls, oat shorts and salt.	2614
2.60	2.50	12.73	12.00	3 00	Alfalfa meal, ground corn, crushed oats, molasses, cottonseed meal, oatmeal mill by-product (oat mid-dlings, oat hulls, oat shorts) and $\frac{1}{2}$ of 1% salt.	Alfalfa meal, ground corn, crushed oats, molasses, oat mid-dlings, oat hulls, oat shorts and salt.	3240
4.12	2.50	11.62	12.00	3 00	Alfalfa meal, ground corn, crushed oats, molasses, cottonseed meal, oatmeal mill by-product (oat mid-dlings, oat hulls, oat shorts) and $\frac{1}{2}$ of 1% salt.	As certified, -----	3482
2.83	-----	12.14	-----	54 93			
2.62	1.50	11.40	12.00	2.25	Cracked corn, oats, ground alfalfa, molasses and 1% salt.	As certified, -----	2649
2.79	1.50	10.60	12.00	2 15	Cracked corn, oats, ground alfalfa, molasses and 1% salt.	As certified, -----	2610
1.82	1.50	13.32	15.00	2 10	Cracked corn, barley, ground alfalfa, molasses and 1% salt.	As certified, -----	2609
2.48	1.50	13.40	15.00	-----	Cracked corn, oats, ground alfalfa, molasses and 1% salt.	As certified, -----	3341
2.58	1.50	16.64	15.00	52 00	Cracked corn, oats, ground alfalfa, molasses and 1% salt.	As certified, -----	3433
2.29	-----	14.45	-----	47 00			
2.57	1.70	8.91	11.70	2 30	Cracked corn, oats, ground alfalfa, molasses and 1% salt.	As certified, -----	2575
3.04	1.70	9.95	13.00	3 20	Cracked corn, oats, ground alfalfa, molasses and 1% salt.	As certified, -----	3391
2.81	-----	9.43	-----	2 75			
3.24	3.20	5.70	9 00	2 50	Cracked corn, oats, ground alfalfa, molasses and 1% salt.	As certified, -----	2577
5.09	3.20	8.57	8.00	54 00	Cracked corn, oats, ground alfalfa, molasses and 1% salt.	As certified, -----	3420
4.38	3.20	9.32	8.00	2 90	Cracked corn, oats, ground alfalfa, molasses and 1% salt.	As certified, -----	3390
4.24	-----	7.86	-----	54 00			
1.29	1.00	21.20	20.00	43 00	Ground alfalfa, molasses and 1% salt.	As certified, -----	3336

TABLE IV.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled at	Moisture.	Protein.	
				Found.	Guaranteed.
3015	S. F. SCATTERGOOD & CO., PHILADELPHIA, PA. Scattergood Horse Feed, -----	Palmyra, Early & Detweiler.	Per ct. 16.39	Per ct. 12.08	Per ct. 10.06
3396	E. L. SHUTE & CO., PHILADELPHIA, PA. Pippin Alfalfa Horse Feed,* -----	Philadelphia, E. L. Shute & Co.	15.68	12.34	9.00
3395	Shute's Special Horse Feed, -----	Philadelphia, E. L. Shute & Co.	15.27	13.46	8.00
2741	THE SUGARINE CO., PEORIA, ILL. Sugarine Horse Feed with Alfalfa,-----	York, Anderson Brothers & Co.	15.26	10.35	10.00
3514	Sugarine Horse Feed with Alfalfa,-----	Manheim, Lancaster County Farmers' Assn.	10.86	11.04	10.00
		Average, -----	13.06	10.70	-----
3488	THE TOLEDO GRAIN & MILLING CO., TOLEDO, OHIO. Camp's Invincible Alfalfa Feed, ----	Ligonier, J. Harvey Miller.	15.41	11.86	10.00
3603	THE WALSH-CO ALFALA MILLING CO., FT. CALHOUN, NEBR. Alfalgreen, -----	Wilkes-Barre, Robbins Milling Co.	14.13	14.40	10.06
3199	F. S. WERTZ & SON, READING, PA. Our Own Alfalfa-Molasses Horse and Mule Feed.	Pottsville, Hewes & McNamara.	17.03	9.24	9.00
2902	Our Own Alfalfa-Molasses Horse and Mule Feed.	Pottstown, A. K. Kulp, --	14.97	10.55	9.00
		Average, -----	16.00	9.90	-----
3609	Faramel Horse Feed, -----	Palmyra, John B. Curry's Sons.	13.83	11.58	9.00
2653	Faramel Horse Feed, -----	Phoenixville, W. H. Lenhard.	13.97	10.40	9.00
		Average, -----	13.90	10.99	-----
3579	THE WESTERN GRAIN PRODUCTS CO., HAMMOND, IND. Calumet Alfalfa Horse and Mule Feed.	Evans City, George Ifft & Sons.	13.78	10.20	10.00
2424	Chicago Alfalfa Horse and Mule Feed.*	Johnstown, G. Bostert & Sons.	15.11	12.34	10.00
2505	Chicago Alfalfa Horse and Mule Feed.*	Harrisburg, Hoffer & Garman.	14.65	12.54	10.00
2747	Chicago Alfalfa Horse and Mule Feed.*	Hanover, Wm. J. Young & Co.	13.64	11.98	10.00
		Average, -----	14.46	12.29	-----

*Not registered.

FEEDING STUFFS COLLECTED IN 1917.—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct. 2.18	Per ct. 2.00	Per ct. 12.04	Per ct. 9.00	\$ 2 70	Corn, oats, alfalfa meal, oatmeal mill by-product (oat shorts, oat hulls, oat middlings) and molasses.	As certified, -----	3015
2.60	1.50	13.89	12.00	49 50	Cracked corn, oats, alfalfa, hay meal, molasses and $\frac{1}{2}$ of 1% salt.	As certified, -----	3396
4.68	2.00	10.45	14.00	52 50	Oats, corn, molasses and alfalfa.	As certified, -----	3395
3.03	2.50	9.53	12.00	2 25	Molasses, alfalfa, corn, oats, barley and salt.	As certified, -----	2741
4.91	2.50	12.93	12.00	58 00	Molasses, alfalfa, corn, oats, barley, distillers' corn solubles and salt.	As certified, -----	3514
3.97	-----	11.23	-----	51 50			
3.98	2.00	13.08	12.00	3 25	Corn, oats, alfalfa meal and molasses.	As certified, -----	3488
1.34	0.50	17.31	25.00	3 00	Alfalfa and molasses, ---	As certified, -----	3603
3.29	2.00	10.33	15.00	3 00	Crushed oats, cracked corn, alfalfa and molasses.	As certified, -----	3199
2.66	2.00	11.60	15.00	-----	Crushed oats, cracked corn, alfalfa and molasses.	As certified, -----	2902
2.98	-----	10.96	-----	3 00			
3.52	4.00	4.71	6.00	3 00	Crushed oats, cracked corn, wheat bran and molasses.	As certified, -----	3000
3.68	4.00	6.18	6.00	2 50	Crushed oats, cracked corn, wheat bran and molasses.	As certified, -----	2653
3.60	-----	5.44	-----	2 75			
2.94	2.50	14.18	15.00	3 00	Crushed corn, rolled oats, alfalfa meal, linseed meal, molasses and salt.	Crushed corn, rolled oats, alfalfa meal, wheat, molasses and salt.	3579
2.52	2.50	11.35	15.00	2 00	Crushed corn, rolled oats, alfalfa meal, linseed meal, molasses and salt.	Crushed corn, rolled oats, alfalfa meal, linseed meal, molasses, salt and barley.	2424
3.03	2.50	12.56	15.00	1 95	Crushed corn: rolled oats, alfalfa meal, linseed meal, molasses and salt.	As certified, -----	2505
2.75	2.50	13.59	15.00	2 10	Crushed corn, rolled oats, alfalfa meal, linseed meal, molasses and salt.	Crushed corn, rolled oats, alfalfa meal, linseed meal, molasses, salt and trace small whole weed seeds.	2747
2.77	-----	12.50	-----	2 02			

TABLE IV.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled at	Moisture.	Protein.	
				Found.	Guaranteed.
3344	W. S. WOODWARD & CO., PHILADELPHIA, PA. Alfalfa Horse Feed,* -----	Philadelphia, W. S. Woodward & Co.	Per ct. 13.80	Per ct. 12.16	Per ct. 16.50
3345	Green Meadow Horse Feed, -----	Philadelphia, W. S. Woodward & Co.	8.69	11.50	10.00
PROPRIETARY CALF MEALS.					
3078	THE BLATCHFORD CALF MEAL FACTORY, WAUKEGAN, ILL. Blatchford's Calf Meal, -----	Bloomsburg, R. R. Ikelér,	10.16	24.06	24.00
3438	Lamb Meal,* -----	Pittsburgh, The I. W. Scott Co.	9.67	23.25	20.00
3255	NOWAK MILLING CORPORATION, BUFFALO, N. Y. Domino Calf Meal, -----	Hazleton, Geo. W. Engle,	12.22	25.13	25.00
3191	THE QUAKER OATS CO., CHICAGO, ILL. Schumacher Calf Meal, -----	Pottsville, Jalappa Grain Elevator.	9.06	18.94	18.00
2956	Schumacher Calf Meal, -----	Llanerch, S. H. Moore, --	8.90	17.50	-----
2985	Schumacher Calf Meal, -----	Lewisburg, E. C. Noll, ---	8.55	17.50	18.00
		Average, -----	8.50	17.98	-----
2581	RAISTON PURINA CO., INC., ST. LOUIS, MO. Purina Calf Chow, -----	Kittanning, Wm. Gates Estate.	11.08	33.63	33.00
3131	Purina Calf Chow, -----	Montgomery, C. L. Herrold.	10.85	32.56	33.00

FEEDING STUFFS COLLECTED IN 1917.—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct.	Per ct.	Per ct.	Per ct.	\$			
3.40	2.00	13.41	-----	2 80	Green meadow beet syrup, rolled oats and cracked corn.	Alfalfa, beet syrup, rolled oats and cracked corn.	3341
4.01	3.00	8.74	-----	3 50	Alfalfa meal, beet syrup, rolled oats, cracked corn and salt.	As certified, -----	3345
7.60	5.00	7.16	6.75	3 75	Locust bean meal, unpressed flaxseed, wheat flour, blood flour, barley meal, ground beans and peas, rice polish, old process oil meal, cocoa shell meal, cocoanut meal, cottonseed meal, foenu-greek, dried milk, anise and salt.	As certified, -----	3078
6.38	4.00	5.24	6.00	4.75	Locust bean meal, barley meal, blood flour, linseed oil meal, rice polish, bean meal, re-cleaned cottonseed meal, corn meal, wheat flour, anise seed and salt.	As certified, -----	3438
4.67	5.00	6.65	6.00	4 00	Carob beans, flaxseed	As certified, -----	3255
					wheat flour, cottonseed meal, beans and lentils, foenu-greek, anise, cocashell meal and salt.		
9.07	8.00	2.62	4.00	3 60	Oatmeal, wheat meal, ground flaxseed, milk albumen, cottonseed meal and $\frac{1}{2}$ of 1% bicarbonate of soda.	As certified, -----	3191
9.00	-----	3.00	-----	3 50	Oatmeal, wheat meal, ground flaxseed, milk albumen, cottonseed meal and $\frac{1}{2}$ of 1% bicarbonate of soda.	As certified, -----	2956
9.79	8.00	2.72	4.00	4 00	Oatmeal, wheat meal, ground flaxseed, milk albumen, cottonseed meal and $\frac{1}{2}$ of 1% bicarbonate of soda.	As certified, -----	2985
9.29	-----	2.78	-----	3 70			
4.24	4.00	3.40	3.50	4 00	Blood flour, linseed meal, hominy feed and wheat flour.	As certified, -----	2581
4.49	4.00	3.56	3.50	5 00	Blood flour, linseed meal, hominy feed and wheat flour.	As certified, -----	3131

TABLE IV.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled at	Moisture.	Protein.	
				Found.	Guaranteed.
3274	Purina Calf Chow, -----	Allentown, A. T. Stover Estate.	Per ct. 11.32	Per ct. 33.38	Per ct. 33.00
3363	Purina Calf Chow, -----	Johnstown, A. F. Stutzman & Co.	11.22	34.19	33.00
2710	Purina Calf Chow, -----	Irwin, T. F. Wilson,	8.19	33.00	33.00
		Average, -----	10.53	33.35	-----
3017	RYDE & COMPANY, CHICAGO, ILL. Ryde's Cream Calf Meal, -----	Palmyra, Early & Detweiler.	9.88	25.81	25.00
2448	Ryde's Cream Calf Meal, -----	Mifflin, W. H. Manbeck,	11.81	23.50	25.00
2562	Ryde's Cream Calf Meal, -----	Philipsburg, J. O. Reed, --	11.23	24.63	25.00
3155	Ryde's Cream Calf Meal, -----	Millerstown, I. B. Secrist,	10.76	25.38	25.00
		Average, -----	10.92	24.71	-----
	PROPRIETARY SWINE FEEDS.				
	AMERICAN MILLING CO., PEORIA, ILL.				
2539	Sucrene Hog Meal, -----	Swatara, J. B. Curry Estate.	12.62	17.56	16.00
2457	Sucrene Hog Meal, -----	Huntingdon, L. S. Goodman & Son.	8.46	17.92	16.00
		Average, -----	10.54	17.74	-----

FEEDING STUFFS COLLECTED IN 1917.—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct. 4.04	Per ct. 4.00	Per ct. 3.67	Per ct. 3.50	\$ 4 00	Blood flour, linseed meal, hominy feed and wheat flour.	As certified, -----	3274
3.84	4.00	3.61	3.50	4 50	Blood flour, linseed meal, hominy feed and wheat flour.	As certified, -----	3303
4.20	4.00	3.45	3.50	4 50	Blood flour, linseed meal, hominy feed and wheat flour.	As certified, -----	2710
4.16	-----	3.53	-----	4 40			
6.36	5.00	7.21	6.00	3 40	Ground flaxseed, wheat flour, locust bean meal, recleaned cottonseed meal, blood flour, beans and peas, cocoa shell meal, hominy feed, foenugreek, anise and salt.	As certified, -----	3017
5.39	5.00	6.23	6.00	3 75	Ground flaxseed, wheat flour, locust bean meal, recleaned cottonseed meal, blood flour, beans and peas, cocoa shell meal, hominy feed, foenugreek, anise and salt.	As certified, -----	2448
4.57	5.00	5.53	6.00	2 75	Ground flaxseed, wheat flour, locust bean meal, recleaned cottonseed meal, blood flour, beans and lentils, cocoa shell meal, foenugreek, anise and salt.	As certified, -----	2562
4.75	5.00	8.20	6.00	4 40	Ground flaxseed, wheat flour, locust bean meal, recleaned cottonseed meal, blood flour, beans and peas, cocoa shell meal, hominy feed, foenugreek, anise and salt.	As certified, -----	3155
5.27	-----	6.79	-----	3 58			
4.20	5.00	6.36	10.00	2 05	Molasses, ground and bolted grain screenings, corn feed meal, corn gluten feed, linseed meal, soluble blood flour and salt.	As certified, -----	2539
4.12	5.00	5.81	10.00	1 90	Molasses, ground and bolted grain screenings, corn feed meal, corn gluten feed, linseed meal, soluble blood flour and salt.	As certified, -----	2457
4.16	-----	6.13	-----	1 98			

TABLE IV.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled at	Moisture.	Protein.	
				Found.	Guaranteed.
2688	THE BLATCHFORD CALF MEAL FACTORY, WAUKEGAN, ILL. Blatchford's Pig Meal, -----	Greensburg, McFarland Supply Co.	Per ct. 10.37	Per ct. 20.38	Per ct. 18.00
2545	Blatchford's Pig Meal, -----	Elizabethtown, Muth Brothers.	10.06	20.13	18.00
		Average, -----	10.21	20.26	-----
3283	CORN PRODUCTS REFINING CO., NEW YORK, N. Y. Diamond Hog Meal, -----	Hickory, J. M. Caldwell,	9.64	19.94	18.00
3493	JOHN W. ESHELMAN, LANCASTER, PA. Eshelman's Hog Meal, -----	Lancaster, John W. Eshelman.	12.21	19.44	16.00
2829	INTERNATIONAL SUGAR FEED CO., MINNEAPOLIS, MINN. International Climax Hog Feed, ----	Mechanicsburg, A. B. Harnish.	15.92	16.04	16.00
3061	International Climax Hog Feed, ----	Waynesburg, Waynesburg Milling Co.	15.26	17.15	16.00
		Average, -----	15.59	16.60	-----
3060	International Hog Feed and 5% Charcoal.	Waynesburg, Waynesburg Milling Co.	14.93	19.54	22.50
3472	CHARLES A. KRAUSE MILLING CO., MILWAUKEE, WIS. Krause Hog Feed,* -----	Frankstown, J. Herbert Rodkey.	9.10	18.06	15.00
3126	C. H. McMAHAN, MILTON, PA. McMahan's Special Pig Grower,* ----	Milton, C. H. McMahan,	8.43	19.69	15-15.87

*Not registered.

FEEDING STUFFS COLLECTED IN 1917.—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct. 6.61	Per ct. 5.00	Per ct. 6.91	Per ct. 7.00	\$ 4 25	Linseed oil meal, bean and locust bean meal, oat meal, blood flour, wheat flour, barley meal, re-cleaned cottonseed meal, rice polish, corn meal, cocoa shell meal, crushed flaxseed, anise and salt.	As certified, -----	2688
4.48	5.00	6.14	7.00	3 00	Linseed oil meal, oat meal, wheat flour, barley meal, re-cleaned cottonseed meal, cocoa shell meal, bean meal, crushed flaxseed, fennugreek, salt and corn meal.	As certified, -----	2545
5.55	-----	6.52	-----	3 63			
10.61	7.00	8.75	13.00	2 75	Corn oil cake meal, ---	As certified, -----	8283
6.36	5.00	6.36	4.50	64 00	Ten per cent. digester tankage, ground corn, ground rye, ground grain screenings, wheat middlings and charcoal.	As certified, -----	3493
4.73	5.00	12.91	14.00	2 30	Ground barley, ground wheat, ground oats, ground grain screenings, tankage, charcoal, old process oil meal, molasses.	As certified, -----	2829
5.05	5.00	7.34	14.00	2 15	Ground barley, ground wheat, ground oats, ground grain screenings, tankage, charcoal, old process oil meal, molasses.	As certified, -----	3061
4.89	-----	10.13	-----	2 23			
5.30	5.00	12.01	12.00	2 25	Old process oil meal, tankage, molasses, grain middlings, charcoal and salt.	Old process oil meal, tankage, molasses, ground grain screenings, charcoal and salt.	3060
6.42	5.00	7.31	9.00	3 50	Hominy feed, corn germ meal, wheat middlings, digester tankage, alfalfa, wheat bran, corn feed meal and salt.	As certified, -----	3472
6.17	7-8.5	8.12	6-8	2 50	Brewers dried grains, malt sprouts, cottonseed meal, hominy meal.	As certified, -----	3126

TABLE IV.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled at	Moisture.	Protein.	
				Found.	Guaranteed.
2500	J. E. PRITTS, SCOTSDALE, PA. Pritt's Pig Feed,* -----	Scottdale, J. E. Pritts, --	Per ct. 11.73	Per ct. 19.44	Per ct. 16-18
3072	PROPRIETARY CHOP FEEDS. J. J. BADENOCH CO., CHICAGO, ILL. Badenoch's C. & O. Chop, -----	Washington, Washington Grain & Feed Co.	10.46	11.75	9.00
2430	THE ALBERT DICKINSON CO., CHICAGO, ILL. Stag Chop Feed,* -----	South Fork, J. E. Crisman.	9.24	10.56	9.00
2564	FAIRPLAY FEED MILLS, LINTON, IND. Winner Chop, -----	Morrisdale, Morrisdale Feed & Grain Co.	10.19	8.56	7-8
2557	GLOBE ELEVATOR COMPANY, BUFFALO, N. Y. No. 1 Chop Feed, -----	Mt. Jewett, E. Colquist,	9.75	9.13	7-9
2921	No. 1 Chop Feed, -----	Punxsutawney, Jefferson Flour & Feed Co.	11.21	10.06	7-9
2917	No. 1 Chop Feed, -----	Punxsutawney, Keystone Flour & Feed Co.	11.32	10.31	7-9
		Average, -----	10.76	9.83	-----
2485	J. F. HOGSETT & SON, UNION-TOWN, PA. C. Chop, -----	Uniontown, J. F. Hogsett & Son.	11.80	10.13	8.00
2644	J. H. HORNBY & SONS, NEW BRIGHTON, PA. Hornby's C. & O. Chop Feed, ----	New Brighton, M. H. Stager.	12.71	8.06	9.00
3067	THE IMPERIAL GRAIN & MILLING CO., TOLEDO, OHIO. Premium Chop, -----	Washington, Russell Brothers.	10.60	10.19	8.00

*Not registered.

FEEDING STUFFS COLLECTED IN 1917.—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct.	Per ct.	Per ct.	Per ct.	\$			
4.35	3-4	6.64	4.5-6.5	2 20	Corn chop, wheat middlings, charcoal, low grade flour and digester tankage.	As certified, -----	2500
2.36	3.00	10.56	9.00	2 90	Ground corn, corn feed meal, oat hulls and hominy feed.	As certified, -----	3072
5.04	3.00	8.10	9.00	1 75	Corn feed meal, ground corn bran, ground corn screenings, oat hulls, ground barley screenings, cottonseed meal, salt $\frac{1}{2}$ of 1%.	As certified, -----	2430
3.23	3-4	9.88	7-9	2 30	White or yellow corn, oats, corn meal mill by-products (fine meal and siftings), oat meal by-products (oat groats, oat middlings, oat hulls) and salt.	As certified, -----	2564
4.14	3-5	9.08	9.00	2 35	Ground corn, Kaffir corn, oats and oat hulls, flour middlings, salt $\frac{1}{2}$ of 1%.	Ground corn, oats and oat hulls, flour middlings, barley and salt.	2557
5.19	3-5	7.57	9.00	3 00	Ground corn, corn hominy feed, ground oats and oat hulls, wheat middlings, salt $\frac{3}{4}$ of 1%.	As certified, -----	2921
5.50	3-5	7.99	9.00	2 90	Ground corn, corn hominy feed, ground oats and oat hulls, wheat middlings, salt $\frac{3}{4}$ of 1%.	As certified, -----	2917
4.94	-----	8.21	-----	2 75			
4.01	3.00	5.07	8.00	40 00	Corn, oats and oat hulls. Possibly a trace of rye.	Corn, oats, oat hulls and rye.	2485
2.77	3.00	6.98	9.00	2 15	Ground corn, corn feed meal, oat hulls, oat middlings and hominy feed.	Ground corn, corn feed meal, oat hulls, oat middlings, hominy feed, and small amount small whole weed seeds.	2644
3.42	3.50	9.45	9.00	2 90	Shelled and ear corn, cottonseed meal, white hominy meal, oat middlings, oat shorts, oat hulls, salt $\frac{1}{4}$ of 1%.	As certified, -----	3067

TABLE IV.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled at	Moisture.	Protein.	
				Found.	Guaranteed.
3441	JOHN LACHMAN & CO., HAYS, PA. Special C. O. & B. Chop Feed, ----	Hays, John Lachman & Co.	Per ct. 9.10	Per ct. 15.69	Per ct. 7-9
2569	THE LAKE ERIE MILLING CO., TOLEDO, OHIO. Mollett's Yellow C. O. & B. Chop, --	Philipsburg, Center Milling Co.	9.97	9.06	8-9
2451	Mollett's Yellow C. O. & B. Chop, --	Huntingdon, Huntingdon Milling Co.	9.31	10.00	8-9
		Average, -----	9.64	9.53	-----
3593	MINER-HILLARD MILLING CO., WILKES-BARRE, PA. No. 1 Chop, -----	Wilkes-Barre, Miner-Hillard Milling Co.	11.75	11.13	10-12
2563	J. O. REED, PHILIPSBURG, PA. Reed's Rye No. 1 Chop,* -----	Philipsburg, J. O. Reed,	11.62	11.50	10.00
2570	THE TOLEDO GRAIN & MILLING CO., TOLEDO, OHIO. Camp's A Mixed Chop Feed, -----	Philipsburg, Center Milling Co.	9.26	9.56	7-9
2769	Camp's C. O. & B. Chop Feed, ----	Somerset, John G. Emert,	8.92	8.44	8.00
2588	Camp's C. O. & B. Chop Feed, ----	New Kensington, J. A. Hawk.	11.12	8.56	8.00
2876	Camp's C. O. & B. Chop Feed, ----	Wilkinsburg, Johnston & Smith.	9.79	8.06	8.00

*Not registered.

FEEDING STUFFS COLLECTED IN 1917.—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct. 4.35	Per ct. 3.5-4.5	Per ct. 9.38	Per ct. 7-10	\$ 2 75	Corn, oats, barley, oat middlings, oat groats and oat hulls.	Corn, oats, oat middlings, oat groats and oat hulls.	3441
6.16	3.5-4.5	7.56	8-9	2 00	Corn, oats, oat hulls, oat groats, oat middlings, corn meal of-fal, barley, $\frac{1}{2}$ of 1% salt.	As certified, -----	2569
4.45	3.5-4.5	8.94	8-9	1 80	Corn, oats, oat hulls, oat groats, oat middlings, corn meal of-fal, barley, $\frac{1}{2}$ of 1% salt.	As certified, -----	2451
5.31	-----	8.25	-----	1 90			
3.57	3.5-6	7.49	3.5	4 65	Corn, oats and wheat middlings.	As certified, -----	3593
3.20	5.10	5.16	9.00	2 30	Corn, oats, rye, wheat middlings.	As certified, -----	2563
4.00	3-4	8.55	7-9	2 00	White corn, oats, corn meal mill by-product (fine meal and siftings), oat meal by-products (oat groats, oat middlings, oat hulls) and $\frac{1}{2}$ of 1% salt.	White corn, oats, corn meal (fine meal and siftings), oat groats, oat middlings, oat hulls, salt and small amount ground grain screenings.	2570
3.46	4.00	7.88	7.00	2 25	White or yellow corn, oats, barley, corn meal mill by-products (fine meal and siftings), oat meal by-products (oat groats, oat middlings, oat hulls), and $\frac{1}{2}$ of 1% fine salt.	White or yellow corn, oats, corn meal (fine meal and siftings), oat groats, oat middlings, oat hulls and salt.	2769
3.03	4.00	8.29	7.00	2 10	White or yellow corn, oats, barley, corn meal mill by-products (fine meal and siftings), oat meal by-products (oat groats, oat middlings, oat hulls), and $\frac{1}{2}$ of 1% fine salt.	White or yellow corn, oats, corn meal (fine meal and siftings), oat groats, oat middlings, oat hulls and salt.	2588
3.52	4.00	8.63	7.00	2 25	White or yellow corn, oats, barley, corn meal mill by-products (fine meal and siftings), oat meal by-products (oat groats, oat middlings, oat hulls), and $\frac{1}{2}$ of 1% fine salt.	White or yellow corn, oats, corn meal (fine meal and siftings), oat groats, oat middlings, oat hulls and salt.	2876

TABLE IV.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled at	Moisture.	Protein.	
				Found.	Guaranteed.
3183	Camp's C. O. & B. Chop Feed, ---	Tionesta, G. W. Robinson & Son.	Per ct. 9.33	Per ct. 9.13	Per ct. 9.00
		Average, -----	9.79	8.55	-----
3164	Camp's Little Wonder Chop Feed, --	Lock Haven, M. L. Cluster.	10.37	9.25	9.00
3143	Camp's Little Wonder Chop Feed, --	Spangler, E. F. Dumm,	10.91	9.38	9.00
2805	Camp's Little Wonder Chop Feed, --	Lock Haven, F. H. Dyer,	9.53	9.38	8.00
3521	Camp's Little Wonder Chop Feed, --	Blairsville, J. A. McKelvey.	7.76	10.81	8.00
2573	Camp's Little Wonder Chop Feed, --	Munson, Jacob Smutzinger.	11.19	9.25	8.00
3561	Camp's Little Wonder Chop Feed, --	Indiana, St. Clair, Rinn & Co.	9.49	9.44	9.00
		Average, -----	9.88	9.59	-----
3540	Camp's Surprise Chop Feed, -----	Evans City, George Ifft & Sons.	8.52	9.94	9.00

FEEDING STUFFS COLLECTED IN 1917.—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct. 3.62	Per ct. 3.50	Per ct. 9.58	Per ct. 9.00	\$ 3 10	White or yellow corn, oats, barley, corn meal mill by-products (fine meal and siftings), oat meal by-products (oat groats, oat middlings, oat hulls), and $\frac{1}{2}$ of 1% fine salt.	White or yellow corn, oats, corn meal (fine meal and siftings), oat groats, oat middlings, oat hulls and salt.	3183
3.41	-----	8.59	-----	2 43			
3.63	3.50	8.47	9.00	3 25	White or yellow corn, oats, corn meal mill by-products (fine meal and siftings), oat meal by-products (oat groats, oat middlings, oat hulls) and $\frac{1}{2}$ of 1% salt.	As certified, -----	3164
3.45	3.50	8.89	9.00	3 00	White or yellow corn, oats, corn meal mill by-products (fine meal and siftings), oat meal by-products (oat groats, oat middlings, oat hulls) and $\frac{1}{2}$ of 1% salt.	As certified, -----	3143
3.34	4.00	7.80	8.00	2 25	White or yellow corn, oats, corn meal mill by-products (fine meal and siftings), oat meal by-products (oat groats, oat middlings, oat hulls) and $\frac{1}{2}$ of 1% salt.	As certified, -----	2805
5.46	4.00	11.44	9.00	3 25	Yellow or white corn, oats, oat middlings, oat groats and oat hulls.	As certified, -----	3521
3.60	4.00	7.26	8.00	2 25	White or yellow corn, oats, corn meal mill by-products (fine meal and siftings), oat meal by-products (oat groats, oat middlings, oat hulls) and $\frac{1}{2}$ of 1% salt.	White or yellow corn, oats, corn meal (fine meal and siftings), oat groats, oat middlings, oat hulls, salt and large amount corn glumes.	2573
4.19	3.50	8.41	9.00	3 25	White or yellow corn, oats, corn meal mill by-products (fine meal and siftings), oat meal by-products (oat groats, oat middlings, oat hulls) and $\frac{1}{2}$ of 1% salt.	As certified, -----	3561
3.95	-----	8.71	-----	2 88			
6.12	4.00	10.30	9.00	2 75	White or yellow corn, oats, corn meal mill by-products (fine meal siftings), oat meal by-products (oat groats, oat middlings, oat hulls), wheat middlings and $\frac{1}{2}$ of 1% salt.	As certified, -----	3580

TABLE IV.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled at	Moisture.	Protein.	
				Found.	Guaranteed.
MISCELLANEOUS CHOP FEEDS.					
CORN CHOPS.					
3293	UNKNOWN.	New Brighton, J. H. Hornby & Sons.	Per ct.	Per ct.	Per ct.
	Corn, -----		13.11	9.91	-----
OAT CHOPS.					
2944	I. W. CONNER & CO., WAYNE, PA.	Wayne, I. W. Conner & Co.	9.59	11.25	-----
	Oats Chop,* -----				
3399	EZL. DUNWOODY CO., PHILADELPHIA, PA.	Philadelphia, C. G. Hause & Brother.	8.80	11.56	-----
	Rolled Oats,* -----				
3346	W. S. WOODWARD & CO., PHILADELPHIA, PA.	Philadelphia, W. S. Woodward & Co.	7.34	11.13	-----
	Crushed Oats,* -----				
	Average, -----		8.57	11.31	-----
CORN AND OAT CHOPS.					
3096	J. B. ANDERSON & SON, SHICKSHINNY, PA.	Berwick, Berwick Store Co.	11.30	11.56	-----
	Mixed Chop, -----				
2511	L. A. FISCHER & CO., BRADFORD, PA.	Bradford, L. A. Fischer & Co.	9.67	11.00	-----
	Corn and Oats Chop,* -----				
2455	HUNTINGDON MILLING CO., HUNTINGDON, PA.	Huntingdon, Huntingdon Milling Co.	10.73	10.06	-----
	Corn and Oats Chop, -----				
3376	KANE MILLING & GROCERY CO., KANE, PA.	Kane, Kane Milling & Grocery Co.	10.68	11.25	-----
	Corn and Oats Chop,* -----				
3218	KLEPSEBROTHERS, MARTINSBURG, PA.	Altoona, Klepser Brothers,	11.26	9.38	7.00
	Cow Chop, -----				
2911	THE PARK & POLLARD CO., BOSTON, MASS.	Pottstown, S. Clouse & Co.	12.48	10.13	-----
	Corn and Oats Chop, -----				
2494	F. V. PERRY, SCOTTTDALE, PA.	Scottdale, F. V. Perry, --	14.28	9.50	8-12
	Corn and Oats Chop,* -----				
	Average, -----		11.48	10.41	-----
CHOP FEEDS.					
3246	J. J. BADENOCH CO., CHICAGO, ILL.	Monessen, J. A. Hager-son.	9.68	9.13	9.00
	O. & O. Chop, -----				

*Not registered.

FEEDING STUFFS COLLECTED IN 1917.—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct.	Per ct.	Per ct.	Per ct.	\$			
3.80		1.98				Corn chop, -----	3293
4.80		10.29		3 50	Made from pure oats, --	As certified, -----	2944
6.32		9.75		2 65		Oat chop, -----	3399
5.27		10.51		2 40		Oat chop, -----	3346
5.46		10.11		2 85			
3.84		5.98		4 00		Corn and oats, -----	3096
4.89		6.05		2 35	Corn and oats, -----	As certified, -----	2511
4.21		4.78		46 00	Corn, oats, pure grains,	As certified, -----	2455
4.68		5.80		3 80	Pure corn and oats, ---	As certified, -----	3376
3.92	3.00	3.46	7-9	3 25	Corn and oats, -----	As certified, -----	3218
2.20		6.46		2 50		Corn and oats, -----	2911
4.21	2-4	3.40		2 40	Corn and oats, -----	As certified, -----	2494
3.99		5.06		58 86			
4.71	3.00	11.12	9.00	3 25	Ground corn, corn feed meal, oat hulls and hominy feed.	As certified, -----	3246

TABLE IV.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled at	Moisture.	Protein.	
				Found.	Guaranteed.
3236	C. & O. Chop, -----	Farrell, J. B. Roux, -----	Per ct. 9.72	Per ct. 8.81	Per ct. 9.00
		Average, -----	9.70	8.97	-----
2931	CHESBRO BROTHERS, ATTICA, N. Y. Corn, Oats and Barley Feed, -----	DuBois, A. T. Sprinkle,	8.14	10.13	8-10
2459	E. HELLYER, JR., ALEXANDRIA, PA. Mixed Chop, -----	Huntingdon, L. S. Goodman & Son.	7.20	11.00	9.00
3079	R. R. IKELER, BLOOMSBURG, PA. Mixed Chop,* -----	Bloomsburg, R. R. Ikeler,	11.51	11.44	10.00
2677	H. J. KLINGLER & CO., BUTLER, PA. Pure C. O. & B. Chop,* -----	Butler, H. J. Klinger & Co.	12.01	11.13	-----
3609	C. P. MATTHEWS & SONS, INC., SCRANTON, PA. Corn and Oats Chop,* -----	Wilkes-Barre, C. P. Matthews & Sons, Inc.	9.98	10.94	7-9
3592	MINER-HILLARD MILLING CO., WILKES-BARRE, PA. Mixed Chop, -----	Wilkes-Barre, Miner-Hillard Milling Co.	11.23	9.81	7.00
2493	F. V. PERRY, SCOTTDALE, PA. Mixed Chop,* -----	Scottdale, F. V. Perry, --	11.22	12.31	8-10
2711	JAMES F. STANTON & SONS, NEW STANTON, PA. Fresh Ground Chop, -----	New Stanton, James F. Stanton & Sons.	10.22	8.13	8.00
3147	VEITH BROTHERS, BARNESBORO, PA. Mixed Chop,* -----	Barnesboro, Veith Brothers	13.12	8.38	7-11
	MISCELLANEOUS FEEDS.				
2631	THE MOTTS COMPANY, CLEVELAND, OHIO. Vegetable Tankage,* -----	West Bridgewater, W. W. McCullough.	6.61	19.44	20-30
2981	SEIG. KUCZYNSKI, MILWAUKEE, WIS. P. P. Meal,* -----	Goldsboro, The Goldsboro Pure Feed Co.	6.48	7.38	-----

*Not registered.

FEEDING STUFFS COLLECTED IN 1917.—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct. 5.07	Per ct. 3.00	Per ct. 11.50	Per ct. 9.00	\$ 54 00	Ground corn, corn feed meal, oat hulls and hominy feed.	As certified, -----	3236
4.89	-----	11.31	-----	59 50			
5.76	4-6	11.57	7-9	2 90	Corn, hominy, barley, oat shorts, oat hulls, oat middlings, wheat middlings and $\frac{1}{2}$ of 1% salt.	Corn, hominy, oat shorts, oat hulls, oat middlings, wheat middlings and salt.	2931
3.61	4.00	6.00	9.00	2 20	-----	Corn, oats and wheat middlings.	2459
3.11	3.00	4.03	7.00	3 25	Corn, oats, rye and mixed broken grains from wheat and rye.	As certified, -----	3079
3.94	-----	3.08	-----	2 40	Corn, oats and beans, --	As certified, -----	2677
5.48	2-5	6.54	6-7	4 65	Corn, oats, hominy and oat hulls.	Corn, oats, hominy, oat hulls and ground grain screenings.	3009
3.84	2.00	4.62	7.00	3 00	Corn, wheat middlings and oat hulls.	As certified, -----	3592
3.14	2-5	5.08	9-11	39 00	Corn, oats, rye, rye screenings, oat feed and dried rye distillers grains.	As certified, -----	2493
3.14	3.00	9.46	11.00	2 25	Corn, oat hulls, oat middlings and a small percentage of grain screenings.	As certified, -----	2711
1.57	3-5	3.61	-----	3 00	Corn cobs, oats feed, --	Ear corn, oat hulls and oat middlings.	3147
4.12	2-5	7.97	10.00	1 20	-----	Vegetable tankage with trace of glass present.	2631
9.12	-----	53.53	-----	-----	-----	Ground peanut hulls and palm oil.	2981

TABLE IV.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled at	Moisture.	Protein.	
				Found.	Guaranteed.
	PROPRIETARY POULTRY FOODS. WHOLE GRAIN SCRATCH FEEDS. AMERICAN MILLING CO., PE- ORIA, ILL.				
2774	Cluck Cluck Scratch Feed—No Grit,—	Somerset, John G. Emert,	Per et. 11.54	Per et. 11.19	Per et. 10.00
3288	Cluck Cluck Scratch Feed—No Grit,—	Monongahela, D. E. Gam- ble.	12.07	12.19	10.00
2831	Cluck Cluck Scratch Feed—No Grit,—	Mechanicsburg, A. B. Har- nish.	12.25	11.06	10.00
3394	Cluck Cluck Scratch Feed—No Grit,—	Philadelphia, Fred L. Le- mont.	10.39	11.75	10.00
3558	Cluck Cluck Scratch Feed—No Grit,—	Indiana, St. Clair, Rinn & Co.	10.81	11.56	10.00
2417	Cluck Cluck Scratch Feed—No Grit,—	Windber, Weaver & Ber- key.	11.67	10.81	10.00
		Average, -----	11.45	11.43	-----
3209	Cluck Cluck Scratch Feed—With Grit,	Minersville, The Lytle Store Co.	11.61	11.00	10.00
3213	Sucrene Chick Feed—No Grit, -----	Tamaqua, C. W. Royer, --	11.94	11.75	10.00
2938	Sucrene Chick Feed—With Grit, -----	Emporium, Emporium Mill- ing Co.	13.10	10.00	10.00
2961	Sucrene Scratch Feed—No Grit, -----	Upper Darby, V. E. Bond,	13.00	12.56	10.00
3530	Sucrene Scratch Feed—No Grit, -----	Paoli, Edward F. Bracken,	10.66	10.88	10.00
3279	Sucrene Scratch Feed—No Grit, -----	Allentown, George B. Shel- ley Estate.	11.75	12.06	10.00
		Average, -----	11.80	11.83	-----
3095	J. B. ANDERSON & SON, SHICK- SHINNY, PA. Scratch Feed, -----	Berwick, Berwick Store Co.	11.51	11.50	-----

FEEDING STUFFS COLLECTED IN 1917.—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct.	Per ct.	Per ct.	Per ct.	\$			
3.77	2.50	2.53	5.00	3 00	Corn, wheat, barley, Kaffir corn, sunflower seed and huckwheat.	Corn, wheat, barley, Kaffir corn, sunflower seed, buckwheat and small amount whole weed seeds.	2774
3.00	2.50	3.13	5.00	4 25	Corn, wheat, barley, Kaffir, oats, sunflower seed and huckwheat.	Corn, wheat, barley, Kaffir corn, oats, sunflower seed, buckwheat and small amount whole weed seeds.	3288
3.45	2.50	3.07	5.00	2.80	Corn, wheat, barley, Kaffir corn, sunflower seed and huckwheat.	Corn, wheat, barley, Kaffir corn, sunflower seed, buckwheat and small amount whole weed seeds.	2831
3.02	2.50	3.69	5.00	4 25	Corn, wheat, barley, Kaffir, oats, sunflower seed and huckwheat.	Corn, wheat, barley, Kaffir corn, oats, sunflower seed, buckwheat, marble grit, grit and small amount whole weed seeds.	3394
3.16	2.50	3.62	5.00	4.50	Corn, wheat, barley, Kaffir, oats, sunflower seed and huckwheat.	As certified, -----	3558
3.00	2.50	2.53	5.00	2.50	Corn, wheat, barley, Kaffir corn, sunflower seed and huckwheat.	As certified, -----	2417
3.23	-----	3.69	-----	3.55			
3.81	2.50	2.85	5.00	4.50	Corn, wheat, barley, Kaffir, oats, sunflower seed and huckwheat, grit.	Corn, wheat, barley, Kaffir corn, oats, sunflower seed, buckwheat, grit and small amount whole weed seeds.	3209
3.43	2.50	2.66	5.00	4 20	Corn, wheat, Kaffir and millet.	Corn, wheat, Kaffir corn, millet and small amount whole weed seeds.	3213
3.11	2.50	2.12	5.00	4 40	Corn, wheat, Kaffir, millet and marble grit.	Corn, wheat, Kaffir corn, millet, marble grit, oats, flaxseed and small amount whole weed seeds.	2938
4.01	2.50	2.96	5.00	3 75	Corn, wheat, Kaffir, barley, sunflower seed, huckwheat and oats.	Corn, wheat, Kaffir corn, barley, sunflower seed, buckwheat, oats and trace whole weed seeds.	2961
3.99	2.50	3.38	5.00	4 50	Corn, wheat, barley, Kaffir, sunflower seed and oats.	As certified, -----	3530
3.60	2.50	3.12	5.00	4 35	Corn, wheat, barley, Kaffir, sunflower seed, buckwheat and oats.	Corn, wheat, barley, Kaffir corn, sunflower seed, huckwheat, oats and small amount whole weed seeds.	3279
3.87	-----	3.15	-----	4 20			
3.38	-----	3.60	-----	4 75		Corn, oats, wheat, huckwheat and small amount whole weed seeds.	3095

TABLE IV.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled at	Moisture.	Protein.	
				Found.	Guaranteed.
2784	ARCADY FARMS MILLING CO., RONDOUT, ILL. Arcady Baby Chick Feed, -----	Lititz, Elmer Eby, -----	Per ct. 11.37	Per ct. 11.00	Per ct. 10.00
2785	Arcady Poultry Feed, -----	Lititz, Elmer Eby, -----	12.25	11.31	10.00
3247	J. J. BADENOCH, CO., CHICAGO, ILL. C-Er-Lay Poultry Feed with Grit and Charcoal.	Monessen, J. A. Hagerson,	9.88	10.25	9.50
2623	Sunflower Poultry Feed—No Grit,* --	New Brighton, J. H. H. Hornby & Sons,	11.53	11.44	10.00
2737	BLAMBERG BROTHERS, INC., BALTIMORE, MD. Pigeon Feed No. 1 with Cracked Corn.*	York, Strayer Bros. Co.,--	11.90	12.25	12.80
3089	BLANK & GOTSHALL, SUNBURY, PA. Blended Hen Food, -----	Berwick, T. M. Bomboy,--	11.73	11.94	10.00
3363	Blended Hen Food, -----	Chambersburg, Lakeview Milling Co.	11.88	9.38	8-10.5
		Average, -----	11.80	10.66	-----
3202	No. 1 Hen Food, -----	Pottsville, Speacht Bros.,--	11.80	11.44	8-10
2904	BRADFORD & SON, CENTRE HALL, PA. Scratch Feed,* -----	Centre Hall, Bradford & Son.	12.29	11.50	-----
3116	BUFFALO FLOUR MILLS, MIL- TON, PA. Hen Food* -----	Milton, Buffalo Flour Mills.	11.24	10.44	-----

*Not registered.

FEEDING STUFFS COLLECTED IN 1917.—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct.	Per ct.	Per ct.	Per ct.	\$			
2.51	2.50	1.89	5.00	2 60	Wheat, cracked corn, Kafir corn, millet seed, hulled oats.	Wheat, cracked corn, Kafir corn, millet seed, hulled oats and small amount whole weed seeds.	2784
3.53	2.50	2.87	5.00	2 75	Wheat, cracked corn, Kafir corn, barley, oats, buckwheat, sunflower seed.	Wheat, cracked corn, Kafir corn, barley, oats, buckwheat, sunflower seed and small amount whole weed seeds.	2785
2.53	2.50	2.70	5.00	4.25	Wheat, cracked corn, Kafir corn, barley, oats, sunflower seed, milo maize and not over 4% grit, 4% shell and 1% charcoal.	As certified, -----	3247
3.66	2.50	4.14	5.00	2 75	Wheat, cracked corn, Kafir corn, barley, oats, sunflower seed, buckwheat, milo maize and 1% charcoal.	Wheat, cracked corn, Kafir corn, barley, oats, sunflower seed, buckwheat, milo maize, charcoal and large amount whole weed seeds.	2628
3.43	3.70	2.06	4.00	4.00	Cracked corn, wheat, buckwheat, hemp, millet, Canada peas, Kafir corn, and vetches properly balanced.	Cracked corn, wheat, buckwheat, hemp, millet, Canada peas, Kafir corn, vetches, rice and small amount whole weed seeds.	2737
3.28	2.25	2.97	3.50	4 40	Cracked corn, wheat, Kafir corn, buckwheat, barley, Hen-e-ta bone, charcoal, sunflower seed.	Cracked corn, wheat, Kafir corn, buckwheat, barley, Hen-e-ta bone, charcoal, sunflower seed and small amount whole weed seeds.	3089
3.37	2.25-3	2.57	3-3.75	4 50	Cracked corn, wheat, Kafir corn, buckwheat, barley, Hen-e-ta bone, charcoal, sunflower seed.	Cracked corn, wheat, Kafir corn, buckwheat, barley and Hen-e-ta bone.	3363
3.33	-----	2.77	-----	4 45			
3.28	2.25-3	2.91	2.5-3.5	4 20	Cracked corn, wheat, Kafir corn, buckwheat, barley, sunflower seed, Hen-e-ta bone and charcoal.	Cracked corn, wheat, Kafir corn, buckwheat, barley, sunflower seed, Hen-e-ta bone, charcoal and small amount whole weed seeds.	3202
2.76	-----	3.45	-----	70 00	Wheat, cracked corn, barley, oats and buckwheat.	As certified, -----	2994
3.10	-----	2.86	-----	3 65	Cracked corn, wheat, buckwheat, barley, sunflower seed, milo maize, oats, Hen-e-ta bone.	As certified, -----	3116

TABLE IV.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled at	Moisture.	Protein.	
				Found.	Guaranteed.
3134	CITY FLOURING MILLS, INC., MUNCY, PA. Scratch Grains,* -----	Muncy, City Flouring Mills, Inc.	Per ct. 11.95	Per ct. 10.94	-----
3084	JOHN C. CRISMAN, BERWICK, PA. Crisman's Mixed Chicken Feed,* ----	Berwick, John C. Crisman,	12.65	10.38	-----
3123	WM. E. CUSTER, MILTON, PA. Custer's Chick Food,* -----	Milton, W. E. Custer, --	11.89	10.75	-----
3122	Custer's Scratch Feed,* -----	Milton, W. E. Custer, ----	11.53	10.25	-----
3220	DANNALS MILLING CO., ALTOONA, PA. Chick Food, -----	Altoona, Dannals Milling Co.	10.01	7.94	8.00
3221	Hen Food, -----	Altoona, Dannals Milling Co.	9.61	9.63	8.00
3241	THE ALBERT DICKINSON CO., CHICAGO, ILL. Colonial Scratch Feed—With Grit, ---	Charleroi, Western Flour Co.	11.30	10.31	10.00
2858	Glove Chick Feed—With Grit, -----	Canonsburg, Canonsburg Milling Co.	11.46	9.88	10.00
3028	Glove Developing Feed—With Grit, --	New Castle, Fisher & Mengle.	11.58	10.94	10.00
2867	Globe Pigeon Feed—No Grit, -----	Corry, Acme Milling Co.,	12.09	13.88	10.00
3262	Globe Scratch Feed—No Grit, -----	E. Mauch Chunk, Stemler Brothers.	11.95	11.50	10.00
2474	Globe Scratch Feed—With Grit, -----	Connellsville, Dull & Co.,	10.68	10.25	10.00
3317	Pine Tree Scratch Feed—No Grit, ---	Troy, H. M. Spalding & Son.	11.24	11.69	10.00
3263	Pine Tree Scratch Feed—No Grit, ---	E. Mauch Chunk, Stemler Bros.	11.84	11.19	10.00
		Average, -----	11.54	11.44	-----

*Not registered.

FEEDING STUFFS COLLECTED IN 1917.—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct. 3.82	Per ct.	Per ct. 2.30	Per ct.	3 50	Wheat, cracked corn and wheat screenings.	Wheat, cracked corn, wheat, screenings, and small amount whole weed seeds.	3134
3.25		3.07		4.00	Wheat, corn, oats, cracked corn and buckwheat.	As certified, -----	3084
4.05		2.67		3.50	Cracked wheat, millet and cracked corn.	Cracked wheat, millet, cracked corn, oats and small amount whole weed seeds.	3123
3.07		3.25		3 50	Wheat, buckwheat, Kaffir corn, cracked corn, oats and sunflower seed.	As certified, -----	3122
2.36	2.00	1.51	15.00	4 15	Cracked corn, millet, grit, oyster shell and wheat.	As certified, -----	3220
2.89	2.00	2.50	5.00	4 00	Cracked corn, buckwheat, oats, wheat, sunflower seed, grit, oyster shell and Kaffir corn.	As certified, -----	3221
2.91	2.50	2.98	5.00	4 00	Corn, wheat, barley, oats, Kaffir corn, sunflower seed and grit.	Corn, wheat, barley, oats, Kaffir corn, sunflower seed, grit and buckwheat.	3241
3.43	2.50	2.13	5.00	2 85	Corn, wheat, Kaffir corn, hulled oats, millet, grit.	As certified, -----	2888
3.43	2.50	2.36	5.00	4.25	Corn, wheat, Kaffir corn, hulled oats, buckwheat, millet and grit.	As certified, -----	3028
3.11	2.50	3.56	5.00	4.50	Wheat, buckwheat, Kaffir corn, peas, millet and hemp.	As certified, -----	2867
2.81	2.50	3.03	5.00	4 50	Corn, wheat, buckwheat, sunflower, barley, oats, Kaffir corn and oil cake, no grit.	Corn, wheat, buckwheat, sunflower seed, barley, oats, Kaffir corn and small amount whole weed seeds.	3262
3.14	2.50	2.66	5.00	2 60	Corn, wheat, barley, oats, Kaffir corn, buckwheat, sunflower, linseed oil cake and grit.	As certified, -----	2474
2.69	2.50	3.37	5.00	4.50	Corn, wheat, buckwheat, sunflower, barley, oats and Kaffir corn.	Corn, wheat, buckwheat, sunflower seed, barley, oats, Kaffir corn and small amount whole weed seeds.	3317
2.78	2.50	3.05	5.00	4.45	Corn, wheat, buckwheat, sunflower, barley, oats and Kaffir corn.	Corn, wheat, buckwheat, sunflower seed, barley, oats, Kaffir corn and small amount whole weed seeds.	3263
2.74		3.21		4 48			

TABLE IV.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled at	Moisture.	Protein.	
				Found.	Guaranteed.
3553	Rival Scratch Feed—With Grit,* -----	Homer City, Thomas K. George.	Per ct. 10.11	Per ct. 11.13	Per ct. 9.50
3107	White Cross Scratch Feed—With Grit,	St. Marys, Jacob & Keller Co.	11.96	12.50	10.00
2529	White Cross Scratch Feed—With Grit,	Harrisburg, Paxton Flour and Feed Co.	11.02	9.88	10.00
		Average, -----	11.49	11.19	-----
2943	DIXIE MILLS CO., EAST ST. LOUIS, ILL. Dixie Hen Feed, -----	Wayne, I. W. Conner & Co.	12.55	10.56	10.00
2950	EZL. DUNWOODY CO., PHILADELPHIA, PA. Special Chick Feed, -----	Broomall, Bonsall Bros.,--	12.50	10.81	-----
3348	Special Poultry Scratch Feed, -----	Philadelphia, A. F. Beck,--	11.52	11.81	-----
2949	Special Poultry Scratch Feed, -----	Broomall, Bonsall Bros.,--	11.77	11.06	-----
		Average, -----	11.64	11.44	-----
2615	EARLY & DANIEL CO., CINCINNATI, OHIO. Eaden Scratch, -----	Conshohocken, James Tracy & Son.	10.83	10.13	10.00
3144	ELKLAND ROLLER MILLS, ELKLAND, PA. Get the Egg Scratch Feed,* -----	Spangler, E. F. Dumin, --	12.02	8.00	-----
3200	JOHN W. ESHELMAN, LANCASTER, PA. Esheleman's Chick Feed, No Grit and Shell.	Pottsville, Hewes & McNamara.	11.97	11.63	10.00

*Not registered.

FEEDING STUFFS COLLECTED IN 1917.—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct.	Per ct.	Per ct.	Per ct.	\$			
2.08	2.50	2.75	5.00	5 00	Corn, wheat, Kaffir corn, barley, oats and grit.	Corn, wheat, Kaffir corn, barley, oats, rye and grit.	3553
3.42	2.50	2.76	5.00	3 75	Corn, wheat, barley, oats, Kaffir corn, sunflower, buckwheat and grit.	Corn, wheat, barley, oats, Kaffir corn, sunflower seed, buckwheat, grit and small amount whole weed seeds.	3107
2.93	2.50	2.39	5.00	2 55	Corn, wheat, barley, oats, Kaffir corn, sunflower, buckwheat and grit.	Corn, wheat, barley, oats, Kaffir corn, sunflower seed, buckwheat, grit and small amount whole weed seeds.	2529
3.18	-----	2.57	-----	3 15			
3.25	3.00	2.59	5.00	4 00	Wheat, corn, Kaffir, milo, barley, emmer, oats, sunflower seed.	Wheat, corn, Kaffir corn, milo maize, barley, emmer, oats, sunflower seed and small amount whole weed seeds.	2943
3.14	-----	1.95	-----	4 25	-----	Corn, oats, barley, wheat, Kaffir corn, millet and rice.	2950
3.44	-----	2.80	-----	4 60	-----	Cracked corn, oats, wheat, barley, buckwheat, Kaffir corn, sunflower seed and small amount whole weed seeds.	3348
3.01	-----	3.17	-----	3 90	-----	Corn, oats, wheat, barley, buckwheat, Kaffir corn, sunflower seed and small amount weed seeds.	2949
3.23	-----	2.98	-----	4 25			
3.70	2.50	2.72	5.00	2 75	Wheat, rye, corn, oats, barley, buckwheat, Kaffir corn, sunflower seed, no grit.	Wheat, rye, corn, oats, barley, buckwheat, Kaffir corn, sunflower seed and small amount whole weed seeds.	2615
4.27	-----	3.73	-----	3 75	-----	Cracked corn, oats, wheat, buckwheat, sunflower seed, flaxseed and small amount whole weed seeds.	3144
5.35	3.00	3.02	3.00	4 50	Cracked wheat, cracked corn, flaxseed, Kaffir corn, millet, rice and re-cleaned grain screenings from wheat.	Cracked wheat, cracked corn, flaxseed, Kaffir corn, millet, rice, re-cleaned grain screenings from wheat and large amount weed seeds.	3200

TABLE IV.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled at	Moisture.	Protein.	
				Found.	Guaranteed.
3201	Eshelman's Scratch Feed—No Grit and Shell.	Pottsville, Hewes & Mc-Namara.	Per ct. 11.61	Per ct. 11.94	Per ct. 10.00
2946	Eshelman's Scratch Feed—No Grit and Shell.	Newton Square, J. C. Rhodes Estate.	12.96	10.56	10.00
2664	Eshelman's Scratch Feed—No Grit and Shell.	Reading, F. S. Wertz & Son.	13.11	10.25	10.00
		Average, -----	12.56	10.92	-----
3507	Scratch Feed, 5% Grit, -----	Lancaster, John W. Eshelman.	9.86	10.31	10.00
5105	GLOBE ELEVATOR CO., BUFFALO, N. Y. Blue Ribbon Little Chick Food, -----	Ridgway, Charles O. Salberg.	12.03	12.63	12-14
3110	Blue Ribbon Scratch Feed, -----	St. Marys, Hall-Kaul & Hyde Co.	12.93	12.13	12-14
3104	Star Scratching Grains, -----	Ridgway, Charles O. Salberg.	12.21	11.69	11.00
2616	GOLDEN GRAIN MILLING CO., EAST ST. LOUIS, ILL. Economy Scratch Feed, -----	Conshohocken, James Tracy & Son.	11.34	10.25	10.00

FEEDING STUFFS COLLECTED IN 1917.—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct. 4.50	Per ct. 3.00	Per ct. 2.23	Per ct. 3.00	\$ 4 40	Cracked corn, buckwheat, sunflower seed, barley, Kaffir corn, poultry bone, oats, wheat, charcoal, rye and re-cleaned grain screenings from wheat.	Cracked corn, buckwheat, sunflower seed, seed, barley, Kaffir corn, poultry bone, oats, wheat, charcoal, re-cleaned grain screenings from wheat and small amount whole weed seeds.	3201
3.00	3.00	2.43	3.00	3.75	Cracked corn, re-cleaned grain screenings from wheat, sunflower seed, wheat, barley, Kaffir corn, milo maize, buckwheat, rye and oats.	Cracked corn, re-cleaned grain screenings from wheat, sunflower seed, wheat, barley, Kaffir corn, milo maize, buckwheat, rye, oats and small amount whole weed seeds.	2946
3.63	3.00	2.19	3.00	2 85	Cracked corn, re-cleaned grain screenings from wheat, sunflower seed, wheat, barley, Kaffir corn, milo maize, buckwheat, rye and oats.	Cracked corn, re-cleaned grain screenings from wheat, sunflower seed, wheat, barley, Kaffir corn, milo maize, buckwheat, rye, oats and small amount whole weed seeds.	2664
3.71	-----	2.28	-----	3 67			
2.71	3.00	3.43	3.00	3.90	Cracked corn, re-cleaned grain screenings from wheat, sunflower seed, wheat, barley, Kaffir corn, milo maize, buckwheat, rye and oats.	Cracked corn, re-cleaned grain screenings from wheat, sunflower seed, wheat, barley, Kaffir corn, milo maize, buckwheat, rye, oats and small amount whole weed seeds.	3507
4.48	3-4	2.32	2-3	5 00	Cracked wheat, cracked corn, millet, cracked Kaffir, cracked peas, oatmeal.	Cracked wheat, cracked corn, millet, cracked Kaffir corn, cracked peas, oatmeal, flaxseed and large amount whole weed seeds.	3105
3.96	4-5	3.65	3-4	4 25	Cracked corn, wheat, barley, Kaffir corn, oats, buckwheat, sunflower seed, green split peas.	Cracked corn, wheat, barley, Kaffir corn, oats, buckwheat, sunflower seed, green split peas and small amount whole weed seeds.	3110
5.67	3.00	2.87	5.00	4 00	Corn, cracked corn, Kaffir, wheat, barley, oats, buckwheat, peas.	Corn, cracked corn, Kaffir corn, wheat, barley, oats, buckwheat, peas and small amount whole weed seeds.	3104
3.26	3.00	2.25	6.00	2 50	Wheat, Kaffir corn, milo maize, corn and barley.	Wheat, Kaffir corn, milo maize, corn, barley and small amount whole weed seeds.	2616

TABLE IV.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled at	Moisture.	Protein.	
				Found.	Guaranteed.
2978	THE GOLDSBORO PURE FEED CO., GOLDSBORO, PA. Gold-O Scratch Feed, -----	Goldsboro, The Goldsboro Pure Feed Co.	Per ct. 11.96	Per ct. 9.94	Per ct. 10.00
3204	GOOD'S CITY MILLS, WILLIAMS-PORT, PA. Prize Poultry Food, -----	Pottsville, Speacht Bros.,	12.94	10.00	8-15
2518	HALES & EDWARDS CO., CHICAGO, ILL. Cackle Brand Poultry Feed—No Grit, -----	Bradford, Smith Bros., --	11.87	10.63	10.00
3188	Pound Squab Pigeon Feed—With Grit.	Franklin, J. H. Lavery's Sons.	11.73	12.63	10.00
2516	Red Comb Poultry Feed—No Grit, --	Bradford, Smith Bros., --	11.57	10.75	10.00
2884	Red Comb Poultry Feed—With Grit and Shell.	Carnegie, J. H. Bergan & Son.	12.06	10.94	10.00
2482	HOWARD H. HANKS CO., CHICAGO, ILL. Golden Egg Scratch Feed,* -----	Uniontown, M. H. Clark,	12.69	12.13	10.00
2864	THE H-O COMPANY, BUFFALO, N. Y. Algrane Scratching Feed—Special, ----	Spartansburg. Davis & Hyde.	12.24	11.13	11.00
2861	Chick Feed, -----	Spartansburg, Brooklyn Milling Co.	12.18	12.44	12.00
2858	Chick Feed, -----	Titusville, Grange Milling Co.	12.11	13.00	12.00
		Average, -----	12.14	12.72	-----

*Not registered.

FEEDING STUFFS COLLECTED IN 1917.—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct. 3.48	Per ct. 3.00	Per ct. 2.11	Per ct. 3.00	\$ 3.95	Cracked corn, recleaned screenings, wheat, oats, Kaffir corn, milo maize, buckwheat and barley.	Cracked corn, recleaned screenings, wheat, oats, Kaffir corn, milo maize buckwheat, barley and small amount whole weed seeds.	2978
3.55	3-7	2.71	-----	4 20	-----	Cracked corn, oats, wheat, buckwheat and Kaffir corn.	3204
4.16	2.50	2.90	5.00	2 65	Wheat, cracked corn, Kaffir corn, oats, barley, sunflower seed, buckwheat.	Wheat, cracked corn, Kaffir corn, oats, barley, sunflower seed, buckwheat and small amount whole weed seeds.	2518
3.40	2.50	2.70	5.00	4 35	Corn, wheat, Kaffir corn, peas, millet, hemp, buckwheat and not over 6% grit.	As certified, -----	3188
3.32	2.50	2.69	5.00	2 75	Wheat, cracked corn, Kaffir corn, barley, oats, sunflower seed and buckwheat.	Wheat, cracked corn, Kaffir corn, barley, oats, sunflower seed, buckwheat, rye and small amount whole weed seeds.	2516
3.12	2.50	3.44	5.00	2 80	Wheat, cracked corn, Kaffir corn, barley, oats, sunflower seed, buckwheat and not over 3% grit, 3% shell.	Wheat cracked corn, Kaffir corn, barley, oats, sunflower seed, buckwheat, grit, shell and trace whole weed seeds.	2884
2.97	2.50	2.79	5.00	2.75	Wheat, Kaffir corn, buckwheat, barley, cracked corn, sunflower seed and not over 1% charcoal.	As certified, -----	2482
3.86	3.50	2.98	9.00	3 90	Wheat, oats, Kaffir corn, buckwheat, wheat screenings, cracked corn, cracked peas, barley, milo maize, sunflower seed and hulled oats.	Wheat, oats, Kaffir corn, buckwheat, wheat screenings, cracked corn, cracked peas, barley, milo maize, sunflower seed, hulled oats, flaxseed and large amount whole weed seeds.	2864
3.58	3.00	2.26	9.00	4.00	Cracked corn, cut oatmeal, cracked wheat, cracked Kaffir corn, cracked peas, millet and wild weed seeds.	Cracked corn, cut oatmeal, cracked wheat, cracked Kaffir corn, cracked peas, millet, oats, flaxseed and small amount whole weed seeds.	2861
2.96	3.00	1.76	9 00	3 25	Cracked corn, cut oatmeal, cracked wheat, cracked Kaffir corn, cracked peas, millet and wild weed seeds.	Cracked corn, cut oatmeal, cracked wheat, cracked Kaffir corn, cracked peas, millet, oats and small amount whole weed seeds.	2858
3.27	-----	2.01	-----	3 63			

TABLE IV.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled at	Moisture.	Protein.	
				Found.	Guaranteed.
2860	Steam-Cooked Chick Feed, -----	Spartansburg, Brooklyn Milling Co.	Per ct. 12.18	Per ct. 12.31	Per ct. 12.00
2849	Steam-Cooked Chick Feed, -----	Titusville, Kerr Hill Milling Co., Ltd.	11.86	12.09	12.00
	Average, -----		12.02	12.50	-----
2627	J. H. HORNBY & SONS, NEW BRIGHTON, PA. Hornby's Grains—No Grit, -----	New Brighton, J. H. Hornby & Sons.	10.75	11.06	9.50
3077	R. R. IKELER, BLOOMSBURG, PA. Hen Feed,* -----	Bloomsburg, R. R. Ikeler,	12.20	10.94	-----
2471	JOHNSTOWN MILLING CO., JOHNSTOWN, PA. Scratch Feed with Grit,* -----	Johnstown, Johnstown Milling Co.	12.34	10.24	4-8
2847	KERR HILL MILLING CO., LTD., TITUSVILLE, PA. Mixed Grain Chicken Feed,* -----	Titusville, Kerr Hill Milling Co., Ltd.	13.31	9.63	-----
2732	CHARLES A. KRAUSE MILLING CO., MILWAUKEE, WIS. Blue Top Chick Feed with Grit, ----	York, Strayer Bros. Co.,--	11.07	10.19	10.00
3250	Blue Top Scratch Feed—No Grit, ----	Belle Vernon, H. R. Croushore.	13.53	11.13	10.00
2840	Blue Top Scratch Feed—No Grit, ----	Carlisle, L. L. Rice, -----	12.12	10.69	10.00
3054	Blue Top Scratch Feed—No Grit, ----	Washington, C. B. Ruch,--	13.12	12.00	10.00

*Not registered.

FEEDING STUFFS COLLECTED IN 1917.—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct. 3.21	Per ct. 3.00	Per ct. 2.27	Per ct. 9.00	\$ 4 72	Cracked corn, cut oatmeal, cracked wheat, cracked Kaffir corn, cracked peas, millet and wild weed seeds.	Cracked corn, cut oatmeal, cracked wheat, cracked Kaffir corn, cracked peas, millet and small amount whole weed seeds.	2860
3.02	3.00	1.84	9.00	4 00	Cracked corn, cut oatmeal, cracked wheat, cracked Kaffir corn, cracked peas, millet and wild weed seeds.	Cracked corn, cut oatmeal, cracked wheat, cracked Kaffir corn, cracked peas, millet and small amount whole weed seeds.	2849
3.12	-----	2.05	-----	4 36			
4.27	2.50	3.30	5.00	2.75	Wheat, cracked corn, Kaffir corn, barley, oats, sunflower seeds, milo maize and charcoal.	Wheat, cracked corn, Kaffir corn, barley, oats, sunflower seeds, milo maize, charcoal and small amount whole weed seeds.	2627
4.02	-----	3.48	-----	4 00	Wheat, Kaffir corn, cracked corn, oats and sunflower seed.	Wheat, Kaffir corn, cracked corn, oats, sunflower seed and small amount whole weed seeds.	3077
3.07	2-3	2.38	4-12	2 50	Cracked corn, wheat, barley, buckwheat, oats, sunflower, Kaffir corn, grit and oyster shell.	As certified, -----	2471
3.21	-----	2.73	-----	3 70	Corn, wheat, buckwheat and Kaffir corn.	Corn, wheat, buckwheat, Kaffir corn, oats, barley, sunflower seed and small amount whole weed seeds.	2847
3.13	2.50	2.31	5.00	3 15	Wheat, corn, Kaffir corn, millet seed and grit.	Wheat, corn, Kaffir corn, millet seed, grit and small amount whole weed seeds.	2732
2.87	2.50	2.44	5.00	4.20	Corn, wheat, buckwheat, barley, oats, Kaffir corn and sunflower.	As certified, -----	3250
3.39	2.50	2.55	5.00	3.00	Corn, wheat, buckwheat, barley, oats Kaffir corn and sunflower.	Corn, wheat, buckwheat, barley, oats, Kaffir corn, sunflower, flaxseed and small amount small whole weed seeds.	2840
3.20	2.50	2.66	5.00	3 60	Corn, wheat, buckwheat, barley, oats Kaffir corn and sunflower.	Corn, wheat, buckwheat, barley, oats, Kaffir corn, sunflower and small amount small whole weed seeds.	3054

TABLE IV.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled at	Moisture.	Protein.	
				Found.	Guaranteed.
2733	Blue Top Scratch Feed—No Grit, ----	York, Strayer Bros. Co.,--	Per ct. 12.25	Per ct. 10.44	Per ct. 10.00
		Average, -----	12.75	11.07	-----
3474	Cream City Scratch Feed—No Grit, --	Frankstown, J. Herbert Rodkey.	11.59	13.06	8.50
3070	Cream City Scratch Feed—No Grit, --	Houston, W. M. Templeton & Sons.	12.10	10.75	8.50
		Average, -----	11.84	11.91	-----
2928	L. M. KRINER, DU BOIS, PA. Superior Scratch Grains,* -----	DuBois, L. M. Kriner, ----	13.14	10.31	10.00
3570	THE LAKE SHORE ELEVATOR CO. CLEVELAND, OHIO. Special Scratch Food, -----	Zelienople, J. J. Kennedy,--	12.09	10.63	10.50
3610	C. P. MATTHEWS & SONS, INC., SCRANTON, PA. Best Mixed Grain for Chickens, -----	Wilkes-Barre, C. P. Matthews & Sons., Inc.	11.24	11.13	8-9
3611	Best Mixed Grain for Chickens, -----	Wilkes-Barre, C. P. Matthews & Sons., Inc.	10.70	12.56	8-9
		Average, -----	10.97	11.85	-----
3258	MAUSER MILL CO., NORTHAMPTON, PA. Mauser's Hen Food, -----	E. Mauch Chunk, Stemler Bros.	12.71	10.81	9-10
3598	MINER-HILLARD MILLING CO., WILKES-BARRE, PA. Mixed Chicken Feed, -----	Wilkes-Barre, Miner-Hillard Milling Co.	10.43	9.88	8.00

*Not registered.

FEEDING STUFFS COLLECTED IN 1917.—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct. 3.50	Per ct. 2.50	Per ct. 2.71	Per ct. 5.00	\$ 3 00	Corn, wheat, buckwheat, barley, oats Kaffir corn and sunflower.	Corn, wheat, buckwheat, barley, oats, Kaffir corn, sunflower seed and small amount whole weed seeds.	2733
3.24	-----	2.59	-----	3 45			
3.12	2.50	4.34	5.00	4 00	Cracked corn, wheat, barley, oats, Kaffir corn or milo maize, buckwheat, sunflower.	Cracked corn, wheat, barley, oats, Kaffir corn, milo maize, buckwheat, sunflower and small amount whole weed seeds.	3474
3.00	2.50	3.37	5.00	3 60	Cracked corn, wheat, barley, oats, Kaffir corn or milo maize, buckwheat, sunflower.	Cracked corn, wheat, barley, oats, Kaffir corn, milo maize, buckwheat, sunflower seed, flaxseed and small amount small whole weed seeds.	3070
3.06	-----	3.85	-----	3 80			
3.42	2.50	3.00	5.00	64 00	Wheat, cracked corn, Kaffir corn, barley and buckwheat.	Wheat, cracked corn, Kaffir corn, barley, buckwheat and small amount whole weed seeds.	2928
3.03	3.40	3.13	2.85	85 00	Cracked corn, wheat, barley, milo maize, buckwheat and sunflower seed.	Cracked corn, wheat, barley, milo maize and buckwheat.	3570
4.09	2-3	3.20	4-5	4 65	Kaffir corn, buckwheat grains, wheat, cracked corn, oats, barley and sunflower seeds.	Kaffir corn, buckwheat grains, wheat, cracked corn, oats, barley, sunflower seeds and small amount whole weed seeds.	3610
4.15	2-3	3.74	4-5	4 45	Kaffir corn, buckwheat grains, wheat, cracked corn, oats, barley, sunflower seeds and grit.	Kaffir corn, buckwheat grains, wheat, cracked corn, oats, barley, sunflower seed, grit and small amount whole weed seeds.	3611
4.12	-----	3.47	-----	4.55			
3.41	2-3	2.31	3-4	4 50	Pure cracked corn, oats, wheat, Kaffir corn, buckwheat, barley and sunflower seed.	Pure cracked corn, oats, wheat, Kaffir corn, buckwheat and barley.	3258
3.59	2.00	2.86	4.00	4 45	Coarse hominy, Kaffir corn, buckwheat grain, cracked corn, grit, cracked peas, sunflower seed and barley.	Coarse hominy, Kaffir corn, buckwheat grain, corn, grit, sunflower seed, barley, oats and small amount whole weed seeds.	3598

TABLE IV.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled at	Moisture.	Protein.	
				Found.	Guaranteed.
3271	Mixed Chicken Feed, -----	Allentown, A. T. Stover Estate.	Per ct. 10.55	Per ct. 9.56	Per ct. 8.00
		Average, -----	10.49	9.72	-----
3272	Intermediate Scratch Feed,* -----	Allentown, A. T. Stover Estate.	12.99	10.06	-----
3094	No. 1 Scratch Feed, -----	Berwick, Berwick Store Co.	12.59	11.06	-----
3596	No. 1 Scratch Feed, -----	Wilkes-Barre, Miner-Hillard Milling Co.	11.85	10.75	-----
3276	No. 1 Scratch Feed, -----	Allentown, George B. Shelly Estate.	11.51	11.25	-----
		Average, -----	11.98	11.02	-----
3169	NICKEL PLATE ELEVATOR CO., CLEVELAND, OHIO. Imperial Pure Grain Chick Feed, -----	Oil City, New Model Milling Co.	12.80	12.50	-----
3161	NOWAK MILLING CORPORATION, BUFFALO, N. Y. Fidelity Scratch Feed, -----	Selinsgrove, Luther Bolig,	14.00	10.56	10-12
3349	Fidelity Scratch Feed, -----	Chambersburg, J. H. Smith & Sons.	12.43	12.06	10-12
		Average, -----	13.21	11.31	-----
3173	OIL CITY MILLING CO., OIL CITY, PA. Mixed Grains,* -----	Oil City, Oil City Milling Co.	12.78	10.31	-----
3037	OSWEGO MILLING CO., OSWEGO, N. Y. Pontiac Scratch Feed, -----	New Castle, City Roller Mills.	12.43	12.19	10.00
2438	Pontiac Scratch Feed, -----	Lewistown, Spanogle-Yeager Milling Co.	11.41	10.88	10.00

*Not registered.

FEEDING STUFFS COLLECTED IN 1917.—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct. 3.24	Per ct. 2.00	Per ct. 2.18	Per ct. 4.00	\$ 4 25	Coarse hominy, Kaffir corn, buckwheat grain, wheat, cracked corn, grit, cracked peas, sunflower seed and barley.	As certified, -----	3271
3.42	-----	2.52	-----	4 35			
2.35	-----	1.91	-----	4.50		Cracked corn, oats, wheat, buckwheat and Kaffir corn.	3272
3.25	-----	2.59	-----	4 75		Corn, oats, barley, wheat, buckwheat, Kaffir corn, sunflower seed and small amount wild oats.	3094
3.94	-----	3.56	-----	4.65		Corn, Kaffir corn, oats, wheat, barley, buckwheat, sunflower seed and small amount whole weed seeds.	3596
3.02	-----	3.01	-----	4.50		Cracked corn, oats, wheat, buckwheat, barley, Kaffir corn and small amount whole weed seeds.	3276
3.40	-----	3.05	-----	4 63			
3.91	-----	2.30	-----	4 50	Cut wheat, cut oatmeal, cracked corn, millet seed and cracked Kaffir corn.	Cut wheat, cut oatmeal, cracked corn, millet seed, cracked Kaffir corn and trace whole weed seeds.	3169
2.91	3.00	3.14	5.00	3 75	Cracked corn, whole wheat, milo maize, whole barley, buckwheat and sunflower seed.	Cracked corn, whole wheat, milo maize, whole barley, buckwheat, sunflower seed and small amount whole weed seeds.	3161
2.73	3.00	2.78	5.00	4.25	Wheat, milo maize, cracked corn, barley, buckwheat and sunflower seeds.	Wheat, milo maize, cracked corn, barley, buckwheat, sunflower seeds and oats.	3349
2.82	-----	2.96	-----	4 00			
3.25	-----	1.92	-----	4.00	Corn, cracked corn, sunflower seed, wheat, buckwheat, Kaffir corn and barley.	As certified, -----	3173
3.39	1.50	3.64	5.00	72 00	Cracked corn, wheat, barley, buckwheat, oats, Kaffir corn and milo.	Cracked corn, wheat, barley, buckwheat, oats, Kaffir corn, milo maize and small amount whole weed seeds.	3037
3.31	1.50	2.77	5.00	2 65	Cracked corn, wheat, barley, buckwheat, oats, Kaffir corn and milo.	Cracked corn, wheat, barley, buckwheat, oats, Kaffir corn, milo maize and small amount whole weed seeds.	2438

TABLE IV.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled at	Moisture.	Protein.	
				Found.	Guaranteed.
2811	Pontiac Scratch Feed, -----	Lock Haven, E. E. Wentz,	Per ct. 10.41	Per ct. 11.06	Per ct. 10.00
		Average, -----	11.41	11.38	-----
2866	THE PARK & POLLARD CO., BOSTON, MASS. Red Ribbon Chick Feed, -----	Corry, Acme Milling Co.,	13.04	11.00	10.00
3411	Red Ribbon Scratch Feed, -----	Brookville, Kline's Sifter Mills,	10.63	12.75	10.00
3383	Red Ribbon Scratch Feed, -----	Warren, Warren City Mills,	11.82	11.31	10.00
3073	Red Ribbon Scratch Feed, -----	Washington, Washington Grain & Feed Co.,	12.48	11.38	10.00
		Average, -----	11.64	11.81	-----
2607	Screened Scratch Feed, -----	Norristown, W. & H. Rhoads,	11.31	11.56	10.00
2758	FRED PONTZ, LANCASTER, PA. Chick Feed, -----	Lancaster, Fred Pontz, --	12.12	11.69	8-9
2757	Hen Feed, -----	Lancaster, Fred Pontz, --	13.05	9.88	8-9
2878	PRAIRIE STATE MILLING CO., CHICAGO, ILL. Garland Scratch Feed—No Grit, ----	Carnegie, Richey & MeFarland,	13.01	10.31	10.00
3039	THE QUAKER OATS COMPANY, CHICAGO, ILL. Pansy Little Chick Feed—No Grit,* --	New Castle, City Roller Mills,	13.62	11.25	10.00

*Not registered.

FEEDING STUFFS COLLECTED IN 1917.—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct. 3.45	Per ct. 1.50	Per ct. 2.56	Per ct. 5.00	\$ 2 85	Cracked corn, wheat, barley, buckwheat, oats, Kaffir corn and milo.	Cracked corn, wheat, barley, buckwheat, oats, Kaffir corn, milo maize and small amount whole weed seeds.	2811
3.38	-----	2.99	-----	60 67			
3.59	2.00	1.97	5.00	3 95	Cracked corn, wheat, oats, Kaffir corn, milo and whole millet seed.	Cracked corn, wheat, oats, Kaffir corn, milo maize, whole millet seed and small amount whole weed seeds.	2866
2.94	1.50	3.79	5.00	4.15	Corn, wheat, buckwheat, barley, oats, Kaffir corn, milo and sunflower seed.	Corn, wheat, buckwheat, barley, oats, Kaffir corn, milo maize, sunflower seed, rye and small amount whole weed seeds.	3411
2.58	1.50	3.33	5.00	4.25	Cracked corn, wheat, buckwheat, barley, oats, Kaffir corn, milo and sunflower seed.	As certified, -----	3383
3.65	1.50	3.44	5.00	3 65	Cracked corn, wheat, buckwheat, barley, oats, Kaffir corn, milo and sunflower seed.	Cracked corn, wheat, buckwheat, barley, oats, Kaffir corn, milo maize, sunflower seed and small amount whole weed seeds.	3073
3.06	-----	3.52	-----	4 02			
3.17	1.50	2.74	5.00	2 75	Cracked corn, wheat, buckwheat, barley, oats, Kaffir corn, milo and sunflower seed.	As certified, -----	2607
5.43	4-5	3.10	3-4	2 95	Cracked corn, millet, Kaffir corn, wheat screenings and oats.	Cracked corn, millet, Kaffir corn, wheat screenings, oats, flaxseed and large amount small whole weed seeds.	2758
3.01	4-5	2.78	3-4	2 85	Cracked corn, wheat screenings, Kaffir corn, buckwheat and barley.	Cracked corn, wheat screenings, Kaffir corn, buckwheat, barley, rye and small amount whole weed seeds.	2757
3.46	2.50	3.41	5.00	2 65	Wheat, corn, Kaffir corn, barley, sunflower seed, buckwheat and not over 1% charcoal.	As certified, -----	2878
3.36	2.50	2.62	5.00	80 00	Cracked wheat, cracked Kaffir and milo, cracked Indian corn, whole millet seed, oat meal, wild buckwheat (with not to exceed $\frac{1}{2}$ of 1% miscellaneous wild seeds occurring in above seeds and grains) and charcoal.	Cracked wheat, cracked Kaffir corn, milo maize, cracked Indian corn, whole millet seed, oat meal, charcoal, flaxseed and small amount weed seeds.	3039

TABLE IV.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled at	Moisture.	Protein.	
				Found.	Guaranteed.
3175	Pansy Little Chick Feed—With Grit,*	Oil City, Oil City Milling Co.	Per ct. 10.94	Per ct. 10.31	Per ct. 10.00
3228	Pansy Little Chick Feed—With Grit,*	Sharon, Sharon Flour & Feed Milling Co.	12.75	10.38	10.00
		Average, -----	11.84	10.35	-----
2676	Pansy Scratch Grains—No Grit, ----	Butler, H. J. Klingler & Co.	12.73	10.06	10.00
2912	Pansy Scratch Grains—No Grit, ----	West End Punxsutawney, Lindsey Milling Co.	12.31	10.06	10.00
2574	Pansy Scratch Grains—No Grit, ----	Vandergrift, T. J. Rowley.	11.81	10.69	10.00
3229	Pansy Scratch Grains—No Grit, ----	Sharon, Sharon Flour & Feed Milling Co.	13.19	10.63	10.00
3400	Pansy Scratch Grains—No Grit, ----	Clarion, A. C. Snyder & Son.	11.07	14.44	10.00
		Average, -----	12.42	11.18	-----
3192	Sebumacher Little Chick Feed—No Grit.*	Pottsville, Jalappa Grain Elevator.	12.17	10.69	10.00

*Not registered.

FEEDING STUFFS COLLECTED IN 1917.—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct. 3.2	Per ct. 2.50	Per ct. 3.31	Per ct. 5.00	\$ 4 00	Cracked wheat, cracked Kaffir and milo, cracked Indian corn, whole millet seed, oat meal, wild buckwheat (with not to exceed $\frac{1}{2}$ of 1% miscellaneous wild seeds occurring in above seeds and grains), charcoal and marble grit.	Cracked wheat, cracked Kaffir corn, milo maize, cracked Indian corn, whole millet seed, oat meal, flaxseed, charcoal, marble grit and small amount whole weed seeds.	3175
2.66	2.50	2.09	5.00	5 00	Cracked wheat, cracked Kaffir and milo, cracked Indian corn, whole millet seed, oat meal, wild buckwheat (with not to exceed $\frac{1}{2}$ of 1% miscellaneous wild seeds occurring in above seeds and grains), charcoal and marble grit.	Cracked wheat, cracked Kaffir corn, milo maize, cracked Indian corn, whole millet seed, oat meal, charcoal, marble grit and small amount whole weed seeds.	3228
2.94	-----	2.70	-----	4 50			
3.72	2.50	2.51	5.00	2 60	Whole wheat, whole barley, cracked Indian corn, whole Kaffir corn, whole buckwheat, sunflower seed and whole oats.	As certified, -----	2676
4.56	2.50	3.46	5.00	3 50	Whole wheat, whole Kaffir corn, whole oats, whole barley, cracked Indian corn, whole buckwheat and sunflower seed.	As certified, -----	2912
3.96	2.50	2.84	5.00	3 00	Whole wheat, whole Kaffir corn, cracked Indian corn, whole buckwheat, whole barley and sunflower seeds.	As certified, -----	2574
3.25	2.50	3 00	5.00	4 25	Whole wheat, whole Kaffir and milo, whole barley, cracked Indian corn, whole buckwheat, $\frac{1}{2}$ of 1% sunflower seeds and whole oats.	As certified, -----	3229
2.28	2.50	3.18	5.00	5 00	Whole wheat, whole Kaffir corn and milo, whole barley, cracked Indian corn, whole buckwheat, $\frac{1}{2}$ of 1% sunflower seeds and whole oats.	As certified, -----	3400
3.55	-----	2.99	-----	3 67			
3.91	2.50	2.71	5.00	4 50	Cracked wheat, cracked Kaffir corn, cracked Indian corn, whole millet seed, oat meal, wild buckwheat (with not to exceed $\frac{1}{2}$ of 1% miscellaneous wild seeds occurring in above seeds and grains) and charcoal.	Cracked wheat, cracked Kaffir corn, cracked Indian corn, whole millet seed, oat meal, charcoal, flaxseed and large amount whole weed seeds.	3192

TABLE IV.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled at	Moisture.	Protein.	
				Found.	Guaranteed.
3233	Schumacher Little Chick Feed—No Grit.*	Sharon, Lurie Brothers, --	Per ct. 12.75	Per ct. 10.94	Per ct. 10.00
		Average, -----	12.46	10.82	-----
3000	Schumacher Little Chick Feed—With Grit.*	Bellefonte, Lauderbach-Zerby Co.	12.12	11.06	10.00
2913	Schumacher Little Chick Feed—With Grit.*	West End Punxsutawney, Lindsey Milling Co.	12.10	10.19	10.00
3178	Schumacher Little Chick Feed—With Grit.*	Oil City, Magee Feed Company,	13.18	11.13	10.00
2958	Schumacher Little Chick Feed—With Grit.*	Llanerch, S. H. Moore, --	11.91	11.00	10.00
2853	Schumacher Little Chick Feed—With Grit.*	Titusville, Titusville City Mills.	12.34	10.13	10.00
		Average, -----	12.33	10.70	-----

*Not registered.

FEEDING STUFFS COLLECTED IN 1917.—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct.	Per ct.	Per ct.	Per ct.	\$			
3.23	2.50	2.35	5.00	4 00	Cracked wheat, cracked Kaffir or milo, cracked Indian corn, whole millet seed, oat meal, wild buckwheat (with not to exceed $\frac{1}{2}$ of 1% miscellaneous wild seeds occurring in above seeds and grains) and ground charcoal.	Cracked wheat, cracked Kaffir corn, milo maize, cracked Indian corn, whole millet seed, oat meal, ground charcoal and large amount whole weed seeds.	3233
3.57	-----	2.53	-----	4 25			
3.97	2.50	2.70	5.00	3 60	Cracked wheat, cracked Kaffir corn, cracked Indian corn, whole millet seed, oat meal, charcoal, wild buckwheat (with not to exceed $\frac{1}{2}$ of 1% miscellaneous wild seeds occurring in above seeds and grains) and marble grit.	Cracked wheat, cracked Kaffir corn, cracked Indian corn, whole millet seed, oat meal, charcoal, marble grit, flaxseed and a large amount whole weed seeds.	3000
3.36	2.50	2.49	5.00	4 00	Cracked wheat, cracked Kaffir corn, cracked Indian corn, whole millet seed, oat meal, charcoal, wild buckwheat (with not to exceed $\frac{1}{2}$ of 1% miscellaneous wild seeds occurring in above seeds and grains) and marble grit.	Cracked wheat, cracked Kaffir corn, cracked Indian corn, whole millet seed, oat meal, charcoal, marble grit, flaxseed and a large amount whole weed seeds.	2913
3.38	2.50	2.61	5.00	4 50	Cracked wheat, cracked Kaffir and milo, cracked Indian corn, whole millet seed, oat meal, wild buckwheat (with not to exceed $\frac{1}{2}$ of 1% miscellaneous wild seeds occurring in above seeds and grains), charcoal and marble grit.	Cracked wheat, cracked Kaffir corn, milo maize, cracked Indian corn, whole millet seed, oat meal, charcoal, marble grit, flaxseed and large amount whole weed seeds.	3178
3.94	2.50	2.94	5.00	4 00	Cracked wheat, cracked Kaffir corn, cracked Indian corn, whole millet seed, oat meal, wild buckwheat (with not to exceed $\frac{1}{2}$ of 1% miscellaneous wild seeds occurring in above seeds and grains), charcoal and marble grit.	Cracked wheat, cracked Kaffir corn, cracked Indian corn, whole millet seed, oat meal, charcoal, marble grit and large amount whole weed seeds.	2958
3.60	2.50	2.34	5.00	4 00	Cracked wheat, cracked Kaffir corn, cracked Indian corn, whole millet seed, oat meal, wild buckwheat (with not to exceed $\frac{1}{2}$ of 1% miscellaneous wild seeds occurring in above seeds and grains), charcoal and marble grit.	Cracked wheat, cracked Kaffir corn, cracked Indian corn, whole millet seed, oat meal, charcoal, marble grit, flaxseed and large amount whole weed seeds.	2853
3.65	-----	2.61	-----	4 02			

TABLE IV.—ANALYSES OF SAMPLES OF.

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled at	Moisture.	Protein.	
				Found.	Guaranteed.
3266	Schumacher Scratch Grains—No Grit,	Weissport, D. O. Christman.	Per ct. 12.81	Per ct. 12.63	Per ct. 10.00
3542	Schumacher Scratch Grains—No Grit,	West Chester, C. C. Hipple & Son.	11.63	12.25	10.00
3193	Schumacher Scratch Grains—No Grit,	Pottsville, Jalappa Grain Elevator.	12.40	10.19	10.00
3002	Schumacher Scratch Grains—No Grit,	Bellefonte, Launderbach-Zerby Co.	12.94	11.00	10.00
2631	Schumacher Scratch Grains—No Grit,	Conshohocken, S. & J. Pugh.	11.74	11.75	10.00
		Average, -----	12.30	11.56	-----
	RALSTON PURINA COMPANY, ST. LOUIS, MO.				
2520	Purina Chick Feed, -----	Smethport, Herzog Milling Co.	12.77	10.88	11.00
2728	Purina Chick Feed, -----	York, H. H. Smyser, ---	12.82	10.69	10.00
		Average, -----	12.79	10.79	-----
2522	Purina Scratch Feed, -----	Smethport, Herzog Milling Co.	12.22	11.19	11.00
2729	Purina Scratch Feed, -----	York, H. H. Smyser, ---	12.16	10.63	10.00
3275	Purina Scratch Feed, -----	Allentown, A. T. Stover Estate.	12.12	11.25	10.00
		Average, -----	12.16	11.02	-----
3003	Success Chick Feed, -----	Bellefonte, G. R. Danenhower & Son, Inc.	13.45	10.44	8.00

FEEDING STUFFS COLLECTED IN 1917.—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct. 2.23	Per ct. 2.50	Per ct. 3.50	Per ct. 5.00	\$ 4 50	Whole wheat, whole Kaffir and milo, whole barley, cracked Indian corn, whole buckwheat and $\frac{1}{2}$ of 1% sunflower seed.	Whole wheat, whole Kaffir corn, and milo maize, whole barley, cracked Indian corn, whole buckwheat, sunflower seed, flaxseed and small amount whole weed seeds.	3266
2.79	2.50	3.33	5.00	4 25	Whole wheat, whole Kaffir and milo, whole barley, cracked Indian corn, whole buckwheat and $\frac{1}{2}$ of 1% sunflower seed.	Whole wheat, whole Kaffir corn and milo maize, whole barley, cracked Indian corn, whole buckwheat, sunflower seeds and small amount small whole weed seeds.	3542
2.27	2.50	2.21	5.00	4 00	Whole wheat, whole Kaffir and milo, whole barley, cracked Indian corn, whole buckwheat and $\frac{1}{2}$ of 1% sunflower seed.	Whole wheat, whole Kaffir corn and milo maize, whole barley, cracked Indian corn, whole buckwheat, sunflower seeds and small amount whole weed seeds.	3193
2.90	2.50	2.35	5.00	3 60	Whole wheat, whole Kaffir and milo, whole barley, cracked Indian corn, whole buckwheat and $\frac{1}{2}$ of 1% sunflower seed.	As certified, -----	3002
3.72	2.50	2.54	5.00	2 80	Whole wheat, whole barley, cracked Indian corn, whole Kaffir corn, whole buckwheat, sunflower seeds. No grit.	Whole wheat, whole barley, cracked Indian corn, whole Kaffir corn, whole buckwheat, sunflower seeds and small amount small whole weed seeds.	2611
2.78	-----	2.78	-----	3 83			
3.35	2.50	2.25	4.00	3 00	Wheat, corn, millet, Kaffir and milo maize.	As certified, -----	2520
3.09	2.50	1.92	4.00	3 00	Wheat, corn, millet, Kaffir and milo maize.	As certified, -----	2723
3.22	-----	2.68	-----	3 00			
3.40	2.50	2.69	4.00	2 75	Wheat, corn, barley, Kaffir, milo maize and sunflower.	As certified, -----	2522
3.37	2.50	2.68	4.00	3 00	Wheat, corn, barley, Kaffir, milo maize, sunflower and buckwheat.	Wheat, corn, barley, Kaffir corn, milo maize, sunflower, buckwheat and small amount whole weed seeds.	2729
3.07	2.50	3.16	4.00	4 25	Wheat, corn, barley, Kaffir and milo, sunflower and buckwheat.	As certified, -----	3275
3.28	-----	2.84	-----	3 33			
3.11	2.50	1.68	5.00	3 75	Wheat, corn, millet and re-cleaned wheat screenings.	As certified, -----	3003

TABLE IV.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled at	Moisture.	Protein.	
				Found.	Guaranteed.
2820	Success Chick Feed, -----	Mechanicsburg, M. C. Dietz & Son.	Per ct. 12.51	Per ct. 10.00	Per ct. 9.00
		Average, -----	12.98	10.22	-----
3004	Success Scratch Feed, -----	Bellefonte, G. R. Danenhower & Son, Inc.	11.70	11.31	9.00
2625	SAGINAW MILLING CO., SAGINAW, MICH. Red Hen Scratch Feed, -----	Beaver Falls, J. G. Allen.	12.77	10.63	9.50
3378	Wolverine Scratch Feed, -----	Warren, Frank Trusler, --	10.69	11.19	9.40
3013	S. F. SCATTERGOOD & CO., PHILADELPHIA, PA. Scattergood Chick Feed, -----	Palmyra, Early & Detweiler.	11.63	12.00	10.00
3207	Scattergood Chick Feed, -----	Minersville, E. F. Krause.	13.98	10.69	10.00
		Average, -----	12.80	11.35	-----
3014	Scattergood Scratch Feed, -----	Palmyra, Early & Detweiler.	11.68	13.50	10.00
2714	P. A. & S. SMALL COMPANY, YORK, PA. Pearlicross Chick Feed With Grit, --	York, P. A. & S. Small Company.	10.69	9.69	10.00
2715	Pearlicross Developing Feed With Grit.*	York, P. A. & S. Small Company.	11.70	10.19	10.00
2437	SPANOGLE-YEAGER MILLING CO., LEWISTOWN, PA. Scratch Feed,* -----	Lewistown, Spanogle-Yeager Milling Co.	12.12	11.63	-----
2999	THE SUGARINE CO., PEORIA, ILL. Sugarine Chick Feed With Grit, ----	Bellefonte, Lauderbach-Zerby Co.	11.63	13.00	10.00
3296	Universal Scratch Feed—No Grit, --	Clearfield, Lauderbach-Zerby Co.	11.82	12.19	10.00

*Not registered.

FEEDING STUFFS COLLECTED IN 1917.—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct. 3.35	Per ct. 2.50	Per ct. 1.89	Per ct. 5.00	\$ 2 90	Wheat, corn, millet, re-cleaned wheat screenings, Kaffir and milo maize.	As certified, -----	2820
3.23	-----	1.78	-----	3 33			
3.12	2.50	3.10	5.00	3 65	Wheat, corn, barley, re-cleaned wheat screenings, sunflower, Kaffir and milo maize.	As certified, -----	3004
2.90	2.70	2.67	3.00	2 75	Wheat, corn, oats, Kaffir corn, buckwheat, sunflower seed and barley.	Wheat, corn, oats, Kaffir corn, buckwheat and barley.	2625
2.95	2.50	2.53	3.60	4 25	Wheat, corn, Kaffir corn, buckwheat, barley, wheat screenings and oats.	Wheat, corn, Kaffir corn, buckwheat, barley, wheat screenings, oats and small amount whole weed seeds.	3378
3.41	3.50	2.45	5.00	3 80	Cracked corn, cracked wheat, cracked Kaffir corn or milo maize, steel cut oats and millet. No grit.	Cracked corn, cracked wheat, cracked Kaffir corn, milo maize, steel cut oats, millet and small amount whole weed seeds.	3013
2.29	3.50	2.20	5.00	4 30	Cracked corn, wheat, Kaffir corn and millet. No grit.	As certified, -----	3207
2.85	-----	2.32	-----	4 05			
3.87	3.25	3.07	5.00	3 80	Cracked corn, wheat, bulled oats, Kaffir corn or milo maize, barley, buckwheat and sunflower seed.	Cracked corn, wheat, bulled oats, Kaffir corn, milo maize, barley, buckwheat, sunflower seed and small amount whole weed seeds.	3014
3.60	2.50	1.99	5.00	2 83	Corn, wheat, Kaffir corn, millet and grit.	As certified, -----	2714
3.10	2.50	2.06	5.00	2 83	Corn, wheat, Kaffir corn, hulled oats, buckwheat, millet and grit.	Corn, wheat, Kaffir corn, hulled oats, millet and grit.	2715
3.02	-----	2.87	-----	2 65	Wheat, cracked corn, oats, Kaffir corn, buckwheat and barley.	Wheat, cracked corn, oats, Kaffir corn, buckwheat, barley, sunflower seeds and small amount whole weed seeds.	2437
2.93	2.50	2.87	5.00	3 60	Corn, wheat, Kaffir, millet and marble grit.	Corn, wheat, Kaffir, millet, marble grit and small amount small whole weed seeds.	2999
3.12	2.50	2.72	5.00	4 25	Corn, wheat, barley, Kaffir, oats, sunflower seed and buckwheat.	Corn, wheat, barley, Kaffir corn, oats, sunflower seed, buckwheat and small amount whole weed seeds.	3296

TABLE IV.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled at	Moisture.	Protein.	
				Found.	Guaranteed.
2753	Universal Scratch Feed—No Grit, --	Hanover, C. E. Miller, --	Per ct. 11.59	Per ct. 11.25	Per ct. 10.00
		Average, -----	11.70	11.72	-----
3513	Universal Scratch Feed—With Grit,--	M a n h e i m, Lancaster County Farmers Assoc.	10.73	12.00	10.00
2422	JOHN THOMAS & SONS, JOHNS- TOWN, PA. Thomas' Leader Gritless Egg Pro- ducer.*	Johnstown, John Thomas & Sons.	12.29	11.06	10.00
3103	THE TOLEDO GRAIN & MILLING CO., TOLEDO, OHIO. Camp's Red Ball Scratch Feed, ----	Ridgway, Charles O. Sal- berg.	12.76	11.75	10.00
2681	GEORGE WALTER & SONS, BUT- LER, PA. Byrite Chick Grain, -----	Butler, George Walter & Sons.	11.00	12.38	13.00
	MASH FEEDS.				
3531	AMERICAN MILLING CO., PE- ORIA, ILL. Sucrene Poultry Mash, -----	Paoli, Edward F. Bracken,	8.84	20.38	18.00
3212	Sucrene Poultry Mash, -----	Tamaqua, C. W. Royer, --	12.08	20.06	18.00
		Average, -----	10.46	20.22	-----
3090	BLANK & GOTTSHALL, SUN- BURY, PA. Mash Food, -----	Berwick, T. M. Bomboy,	8.92	16.13	15.00
2449	BLATCHFORDS CALF MEAL FAC- TORY, WAUKEGAN, ILL. Blatchford's Fill The Basket Egg Mash.	Mifflin, W. H. Manbeck & Co.	8.75	19.38	19.00

*Not registered.

FEEDING STUFFS COLLECTED IN 1917.—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct. 3.84	Per ct. 2.50	Per ct. 2.95	Per ct. 5.00	\$ 2 75	Corn, wheat, barley, Kaffir, oats, sunflower seed and buckwheat.	Corn, wheat, barley, Kaffir corn, oats, sunflower seed, buckwheat, rye, and small amount whole weed seeds.	2753
3.48	-----	2.83	-----	3 50			
3.62	2.50	3.69	5.00	3 85	Corn, wheat, Kaffir, barley, oats, sunflower seed, buckwheat and marble grit.	Corn, wheat, Kaffir corn, barley, oats, sunflower seed, marble grit, buckwheat and small amount whole weed seeds.	3513
3.32	2.50	3.61	5.00	2 60	Cracked corn, wheat, barley, Kaffir, charcoal, sunflower and buckwheat.	Cracked corn, wheat, barley, Kaffir corn, charcoal, sunflower, buckwheat and large amount whole weed seeds.	2422
3.38	2.50	2.51	5.00	4 00	Cracked corn, whole wheat, Kaffir corn, barley, oats, buckwheat and sunflower seed.	As certified, -----	3103
3.30	2.00	2.31	3.50	4 00	Cracked wheat, corn, oats, millet seed and dried fish scrap.	As certified, -----	2681
4.86	3.50	7.63	12.00	4 00	Corn feed meal, alfalfa meal, meat scraps, corn distillers dried grains, wheat bran, linseed meal and salt.	As certified, -----	3531
3.69	3.50	8.85	12.00	3 00	Corn feed meal, alfalfa meal, meat scraps, corn distillers dried grains, wheat bran, linseed meal and salt.	As certified, -----	3212
4.28	-----	8.24	-----	3 50			
2.93	3.00	4.95	5.00	3 25	Corn meal, bran, gluten meal, pea meal, alfalfa meal, fish scrap, meat meal, Hen-e-ta.	Corn meal, wheat bran, corn gluten meal, alfalfa meal, fish scraps, meat meal and Hen-e-ta.	3090
4.11	4.00	7.67	10.00	3 00	Blatchford's Calf Meal (ocust bean meal, unpressed flaxseed, wheat flour, rice polish, barley meal, ground beans and peas, old process oil meal, cocoa shell meal, cocoanut meal, recleaned cottonseed meal, f o e n u greek, dried milk, anise, salt) also alfalfa, bone, corn and oat meals, wheat bran, wheat middlings, beef scraps, fish, capsicum, powdered limestone.	As certified, -----	2440

TABLE IV.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled at	Moisture.	Protein.	
				Found.	Guaranteed.
2643	F. B. CHAMBERLAIN CO., ST. LOUIS, MO. Chamberlain's Perfect Chick Feed, --	Beaver, A. F. Grine, ---	Per ct. 9.80	Per ct. 12.50	Per ct. 9.00
2530	THE ALBERT DICKINSON CO., CHICAGO, ILL. Globe Egg Mash, -----	Harrisburg, Paxton Flour & Feed Co.	9.34	18.13	15.00
3261	Globe Egg Mash, -----	E. Mauch Chunk, Stemler Brothers.	10.82	16.00	15.00
3030	Queen Poultry Mash, -----	Average, ----- New Castle, Fisher & Mengle.	10.08 12.20	17.07 13.13	----- 11.00
3360	DIEHL, OMWAKE & DIEHL, CHAMBERSBURG, PA. Mak-Em-Lay Dry Mash Feed,* -----	Chambersburg, Diehl, Omwake & Diehl.	8.28	17.50	20.00
2892	WM. H. DUNLAP, JR., CANONSBURG, PA. Dunlap's Mash Feed,* -----	Canonsburg, Wm. H. Dunlap, Jr.	10.26	17.88	18.00
3437	R. D. EATON GRAIN & FEED CO., NORWICH, N. Y. Perfection Mash Mixture,* -----	Pittsburgh, The I. W. Scott Co.	8.00	19.88	12.00

*Not registered.

FEEDING STUFFS COLLECTED IN 1917.—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct. 2.99	Per ct. 2.50	Per ct. 2.81	Per ct. 6.00	\$ 3 60	Wheat, oat meal, charcoal, Kaffir, meat, bone, milo maize, grit, millet, alfalfa, clover and mixed broken grains from wheat screenings.	Wheat, oat meal, charcoal, Kaffir corn, meat, bone, milo maize, grit, millet, alfalfa, clover and mixed broken grains from wheat screenings and small amount small whole weed seeds.	2643
4.93	3.00	7.95	10.00	2 60	Wheat bran, wheat middlings, alfalfa meal, corn bran, corn feed meal, linseed oil cake, meat scraps, salt $\frac{1}{2}$ of 1%.	As certified, -----	2530
4.83	3.00	6.17	10.00	4 40	Wheat bran, wheat middlings, alfalfa meal, ground corn bran, corn feed meal, linseed oil meal, meat scraps and salt $\frac{1}{2}$ of 1%.	As certified, -----	3261
4.88	-----	7.06	-----	3 50			
4.15	2.50	6.41	10.00	4 00	Wheat bran, wheat middlings, alfalfa meal, ground corn bran, corn feed meal, linseed oil meal, meat scraps, salt $\frac{1}{2}$ of 1%.	As certified, -----	3030
4.22	3.50	7.30	10.00	80 00	Ground: wheat, corn, oats, alfalfa, cottonseed, flaxseed, carob beans, aniseed, fenugreek, beans and lentils, cocoa meal, oil meal, gluten and beef scrap.	As certified, -----	3360
4.51	3-5	10.03	9.00	50 00	Bran, middlings, alfalfa meal, corn and oats chop, corn meal, gluten, oil meal, beef scrap, charcoal and small percentage of salt.	As certified, -----	2892
4.38	4.00	10.55	3.00	3 70	Alfalfa meal, milk albumen, milo maize meal, beef scrap, charcoal, winter wheat bran, Kaffir corn meal, granulated bone, whole wheat flour, linseed oil meal, corn gluten, pea meal, bone flour, sodium chloride, ground oats and Henta-grit.	As certified, -----	3437

TABLE IV.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled at	Moisture.	Protein.	
				Found.	Guaranteed.
2787	ELMER EBY, LITITZ, PA. Poultry Mash, -----	Lititz, Elmer Eby, -----	Per ct. 8.78	Per ct. 18.03	Per ct. -----
3506	JOHN W. ESHELMAN, LANCASTER, PA. Laying Mash for More Eggs, -----	Lancaster, John W. Eshelman.	9.60	24.38	20.00
2799	Laying Mash for More Eggs, -----	Vintage, Paradise Farmers Assoc., Inc.	9.31	22.00	20.00
		Average, -----	9.45	23.19	-----
3327	FARMERS & CONSUMERS COMMERCIAL UNION, TROY, PA. Hen Mash,* -----	Troy, Farmers & Consumers Commercial Union.	9.10	26.13	-----
3112	GLOBE ELEVATOR COMPANY, BUFFALO, N. Y. Blue Ribbon Laying Mash, -----	St. Marys, Hall-Kaul & Hyde Co.	9.92	18.88	20-22
2638	A. F. GRINE, BEAVER, PA. Grine's Dry Mash,* -----	Beaver, A. F. Grine, ----	9.42	19.00	14.00

*Not registered.

FEEDING STUFFS COLLECTED IN 1917.—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct. 6.00	Per ct. -----	Per ct. 8.33	Per ct. -----	\$ -----		As certified, -----	
					Bran and shorts from wheat, gluten, hominy, alfalfa meal, animal meal, and Badger Stock Feed (made from hominy feed, barley, maize corn oil meal and reddog flour, oat meal mill by products, (oat middlings, oat hulls, oat shorts) and salt).		2787
5.83	5.00	6.67	7.00	3 65	Twenty per cent. beef and fish scrap, gluten meal, cottonseed meal, oil cake meal, alfalfa meal, wheat bran, wheat middlings, corn meal, ground grain screenings, oats chop and hominy feed.	As certified, -----	3506
6.85	5.00	5.75	7.00	2 85	Twenty per cent. beef and fish scrap, gluten meal, cottonseed meal, oil cake meal, alfalfa meal, wheat bran, wheat middlings, corn meal, ground grain screenings, oats chop and hominy feed.	As certified, -----	2799
6.34	-----	6.21	-----	3 25			
7.56	-----	8.84	-----	3 00	Badger Stock Feed, meat scrap, cottonseed meal, wheat feed, hominy meal, wheat bran, alfalfa and oil meal.	Hominy feed, barley, corn oil meal, maize red dog flour, oat hulls, oat middlings, and salt, meat scraps, cottonseed meal, wheat feed, hominy meal, wheat bran, alfalfa and linseed oil meal.	3327
4.36	3.00	9.39	9-10	4 00	Wheat bran, wheat middlings, wheat flour, ground oats, corn meal, corn gluten meal, pea meal, ground alfalfa, linseed oil meal, meat meal, fish scrap, ground bone.	As certified, -----	3112
4.73	2.00	7.09	15.00	2 65	Corn and oats chop, bran, white middlings, corn gluten feed, alfalfa meal, oil meal, beef scrap, bone and cottonseed meal and charcoal.	As certified, -----	2638

TABLE IV.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled at	Moisture.	Protein.	
				Found.	Guaranteed.
3057	DWIGHT E. HAMLIN, PITTSBURGH, PA. Hamlin's Quality Poultry Dry Mash,	Washington, C. B. Ruch,	Per ct. 9.46	Per ct. 23.44	Per ct. 17.00
3133	C. L. HERROLD, MONTGOMERY, PA. Hen Mash,* -----	Montgomery, C. L. Herrold.	10.44	12.50	-----
2862	THE H-O COMPANY, BUFFALO, N. Y. Poultry Feed, -----	Spartansburg, Brooklyn Milling Co.	9.50	16.38	17.00
2501	HOFFER & GARMAN, HARRISBURG, PA. Mash Feed,* -----	Harrisburg, Hoffer & Garman.	8.94	20.31	-----
2846	KERR HILL MILLING CO., LTD., TITUSVILLE, PA. Mixed Grain Chicken Mash,* -----	Titusville, Kerr Hill Milling Co., Ltd.	9.93	18.38	18.00
2648	LANDES BROTHERS, YERKES, PA. Landes' Dry Mash for Laying Hens and Growing Chickens.*	Phoenixville, W. H. Lenhard.	9.06	18.50	17.00
3477	H. H. LANGDON, ALTOONA, PA. Langdon's Poultry Mash,* -----	Altoona, H. H. Langdon,	9.76	18.56	14-17

*Not registered.

FEEDING STUFFS COLLECTED IN 1917.—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct. 4.94	Per ct. 3.50	Per ct. 9.04	Per ct. 12.00	\$ 3 50	Steamed cooked corn meal, sweet corn flakes, bran, middlings, green alfalfa, high grade meat meal, ground cocoa bean shell, dried distillers grains, linseed oil meal and $\frac{1}{2}$ of 1% salt.	Steamed cooked corn meal, sweet corn flakes, wheat bran, wheat middlings, green alfalfa, meat meal, ground cocoa bean shell, dried distillers grains and salt.	3057
3.79	-----	11.41	-----	3 00	Wheat bran, wheat middlings, corn chop, oats chop, alfalfa meal, beef scrap, cottonseed meal.	Wheat bran, wheat middlings, corn chop, oats chop, alfalfa meal and beef scrap.	3133
5.06	4.50	6.93	9.00	3 20	Ground corn, corn gluten feed, wheat middlings, oat middlings, wheat bran, hominy feed, rolled oats, ground grain screenings, ground peas and molasses.	Ground corn, corn gluten feed, wheat middlings, oat middlings, wheat bran, hominy feed, rolled oats, ground grain screenings and ground peas.	2862
5.54	-----	7.71	-----	2 20	Beef scraps, linseed meal, alfalfa meal, charcoal, corn chop, oats chop, middlings, bran, shorts, Union Grains.	Beef scraps, linseed meal, alfalfa meal, charcoal, corn chop, oats chop, wheat middlings, wheat bran, wheat shorts, corn distillers dried grains, cottonseed meal, hominy meal, brewers' dried grains, barley malt sprouts, gluten feed and salt.	2501
4.94	6.00	6.03	9.00	3 50	Alfalfa meal, corn meal, bran, middlings, charcoal, ground oats, linseed meal, granulated meat and gluten.	Alfalfa meal, corn meal, wheat bran, wheat middlings, charcoal, ground oats, linseed oil meal and granulated meat.	2846
4.66	5.00	5.95	5.00	2 50	Corn meal, meat scrap, bran, middlings, gluten, oil meal, alfalfa meal, cottonseed meal, Hen-e-ta, charcoal and bone meal.	As certified, -----	2648
5.63	3-5	6.27	7-9	3 75	Wheat bran, wheat middlings, corn meal, oil meal, beef scraps, $\frac{1}{2}$ of 1% salt, oats, gluten and cut clover.	As certified, -----	3477

TABLE IV.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled at	Moisture.	Protein.	
				Found.	Guaranteed.
			Per ct.	Per ct.	Per ct.
2432	THE LARROWE MILLING CO., DETROIT, MICH. Larro-Mash, -----	South Fork, J. E. Cris- man.	8.28	25.25	25.00
2554	LEHMAN & WOLGEMUTH, ELIZA- BETHTOWN, PA. Mash Feed,* -----	Elizabethtown, Lehman & Wolgemuth.	8.23	20.31	19.00
2634	W. W. McCULLOUGH, WEST BRIDGEWATER, PA. Chicken Mash,* -----	West Bridgewater, W. W. McCullough.	7.43	17.63	18.00
2923	MAHONING VALLEY MILLING CO., PUNXSUTAWNEY, PA. Laying Mash,* -----	Punxsutawney, Mahoning Valley Milling Co.	10.46	18.06	15.00
3608	C. P. MATTHEWS & SONS, INC., SCRANTON, PA. Best Poultry Mash, -----	Wilkes-Barre, C. P. Mat- thews & Son, Inc.	9.45	15.69	17-20
3093	MILLARD & SCUREMAN, KINGS- TON, PA. Blue Ribbon Hen-O-La Mash, -----	Berwick, Berwick Store Co.	7.38	12.69	10-15
3092	MINER-HILLARD MILLING CO., WILKES-BARRE, PA. Poultry Mash, -----	Berwick, Berwick Store Co.	7.91	14.63	13.60

*Not registered.

FEEDING STUFFS COLLECTED IN 1917.—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct. 4.27	Per ct. 3.00	Per ct. 7.94	Per ct. 10.00	\$ 2 50	Granulated dried beet pulp, granulated blood meat meal, granulated bone, corn meal, oat middlings, standard wheat middlings, buckwheat feed, linseed oil meal, standard wheat bran, corn gluten feed, ground foenugreek seed and $\frac{1}{2}$ of 1% salt, also contains alfalfa meal.	As certified, -----	2432
5.79	4.00	7.31	9.00	2 35	Ground corn, oats, alfalfa, wheat bran, wheat middlings, gluten, beef scrap and salt.	As certified, -----	2554
4.78	4.00	11.01	12.00	2 25	Hominy feed, ground oats, wheat flour, meat meal, tankage, alfalfa meal, wheat bran, corn gluten feed, vegetable tankage, oil meal, a trace fine charcoal, salt and Quaker Dairy Feed with molasses.	Hominy feed, ground oats, wheat flour, meat meal, tankage, alfalfa meal, wheat bran, corn gluten feed, vegetable tankage, cottonseed meal, linseed oil meal, malt sprouts, clipped oat by-product, ground grain screenings, charcoal, salt and molasses.	2634
5.05	4.00	4.97	10.00	3 25	Wheat bran, wheat middlings, corn gluten feed, meat tankage, ground oats, corn meal.	As certified, -----	2923
5.38	3-4	8.53	10-12	3 00	Gluten, white middlings, white bran, corn meal, linseed meal and alfalfa meal.	As certified, -----	3608
2.46	3-5	4.79	8-10	5 00	Corn meal, gluten meal, wheat middlings, ground oats, bran, pea meal, oil meal, alfalfa meal, fish meal, Henta.	Corn meal, gluten meal, wheat middlings, ground oats, wheat bran, linseed oil meal, alfalfa meal, fish meal, Henta grit and cottonseed meal.	3093
4.75	4.00	7.24	10.00	5 00	Ground peas, alfalfa meal, wheat bran, wheat middlings, hominy feed, buckwheat middlings, ground oats.	Alfalfa meal, wheat bran, wheat middlings, hominy feed, buckwheat middlings, ground oats and small amount small whole weed seeds.	3092

TABLE IV.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled at	Moisture.	Protein.	
				Found.	Guaranteed.
3594	Poultry Mash, -----	Wilkes-Barre, Miner-Hillard Milling Co.	Per ct. 10.89	Per ct. 14.31	Per ct. 13.00
3277	Poultry Mash, -----	Allentown, Geo. B. Shelley Estate.	10.55	14.44	13.00
		Average, -----	9.78	14.46	-----
3595	Superior Growing Feed,* -----	Wilkes-Barre, Miner-Hillard Milling Co.	8.61	19.63	18-20
3463	THE MT. HOLLY FEED & GRAIN CO., MT. HOLLY SPRINGS, PA. Holly-O Pure Dry Mash Poultry Feed,* -----	Gettysburg, C. M. Wolf, --	9.33	26.81	25.00
3190	THE PARK & POLLARD CO., BOSTON, MASS. Growing Feed, -----	Franklin, J. H. Lavery's Sons.	10.54	14.56	10.00
3027	Lay or Bust Dry Mash, -----	New Castle, Fisher & Mengle.	9.81	19.38	18.00
3377	Lay or Bust Dry Mash, -----	Kane, Kane Milling & Grocery Co.	9.16	18.50	18.00
3189	Lay or Bust Dry Mash, -----	Franklin, J. H. Lavery's Sons.	10.07	18.19	18.00
2666	Lay or Bust Dry Mash, -----	Norristown, W. & H. Rhoads.	9.26	20.63	18.00

*Not registered.

FEEDING STUFFS COLLECTED IN 1917.—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct. 4.90	Per ct. 4.00	Per ct. 7.49	Per ct. 10.00	\$ 3 75	Ground peas, alfalfa meal, wheat bran, wheat middlings, hominy feed, buckwheat middlings and ground oats.	Alfalfa meal, wheat bran, wheat middlings, hominy feed, buckwheat middlings, and ground oats.	3594
4.59	4.00	8.38	10.00	4 00	Ground peas, alfalfa meal, wheat bran, wheat middlings, hominy feed, buckwheat middlings and ground oats.	As certified, -----	3277
4.75	-----	7.70	-----	4 25			
6.51	6-8	6.17	6-8	3 75	Wheat bran, wheat middlings, hominy feed and beef meal.	As certified, -----	3595
6.15	6.00	6.67	7.50	3 50	Beef, blood and bone, new process linseed meal, steel cut oats, corn meal, wheat middlings, wheat bran, gluten feed, pulverized malt and $\frac{1}{2}$ of 1% salt.	As certified, -----	3463
3.13	1.50	5.93	8.00	3 75	Ground: corn, wheat, barley, oats, meat, bone, alfalfa, Kaffir corn, wheat bran, wheat middlings, buckwheat, beet pulp, calcium carbonate and salt.	Ground: corn, wheat, barley, oats, meat, bone, alfalfa, Kaffir corn, wheat bran, wheat middlings, buckwheat, calcium carbonate and salt.	3190
3.21	1.50	10.77	12.00	3 75	Ground: wheat bran, wheat middlings, corn, wheat, oats, barley, Kaffir corn, buckwheat, alfalfa, fish, meat, bone, meat pulp, calcium carbonate and salt.	As certified, -----	3027
4.24	1.50	7.24	12.00	3 75	Ground: wheat bran and middlings with mill run of screenings, corn, wheat, oats, barley, Kaffir corn, buckwheat, alfalfa, fish, meat, bone, beet pulp, calcium carbonate and salt.	Ground: wheat bran and middlings with mill run of screenings, corn, wheat, oats, barley, Kaffir corn, buckwheat, alfalfa, fish, meat, bone, calcium carbonate and salt.	3377
3.47	1.50	9.76	12.00	3 60	Ground: wheat bran, wheat middlings, corn, wheat, oats, barley, Kaffir corn, buckwheat, alfalfa, fish, meat, bone, beet pulp, calcium carbonate and salt.	Ground: wheat bran, wheat middlings, corn, wheat, oats, barley, Kaffir corn, buckwheat, alfalfa, fish, meat, bone, calcium carbonate and salt.	3189
3.96	1.50	6.05	12.00	2 75	Ground: corn, wheat, oats, barley, Kaffir corn, buckwheat, alfalfa, fish, meat, bone, beet pulp, wheat bran with mill run of screenings, wheat middlings, calcium carbonate and salt.	As certified, -----	2606

TABLE IV.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled at	Moisture.	Protein.	
				Found.	Guaranteed.
2421	Lay or Bust Dry Mash, -----	Johnstown, John Thomas & Sons.	Per ct. 8.84	Per ct. 21.31	Per ct. 18.00
	THE QUAKER OATS COMPANY, CHICAGO, ILL.	Average, -----	9.42	19.60	-----
3264	Schumacher Poultry Mash, -----	Weissport, D. O. Christman.	10.59	21.06	17.50
	RALSTON PURINA COMPANY, ST. LOUIS, MO.				
2521	Purina Chicken Chowder Feed, -----	Smethport, Herzog Milling Co.	9.49	20.50	19.00
3205	Purina Chicken Chowder Feed, -----	Pottsville, Speacht Bros.,	10.79	20.25	19.00
3270	Purina Chicken Chowder Feed, -----	Allentown, A. T. Stover Estate.	10.80	19.69	19.00
		Average, -----	10.36	20.15	-----
	ROBBINS MILLING CO., WILKES- BARRE, PA.				
3002	Luzerne Capitol Poultry Mash,* -----	Wilkes-Barre, Robbins Milling Co.	9.65	18.69	17-19
	JOHN T. RODGERS, McVEYTOWN, PA.				
2440	Hen-O-La Mash Food, -----	McVeytown, John T. Rodgers.	7.43	13.44	10.00
	SAGINAW MILLING CO., SAGI- NAW, MICH.				
3380	Red Hen Dry Mash, -----	Warren, Frank Trusler, --	9.08	19.50	16.50

*Not registered.

FEEDING STUFFS COLLECTED IN 1917.—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct. 5.31	Per ct. 1.50	Per ct. 6.16	Per ct. 12.00	\$ 2 75	Ground: commercial wheat bran, commercial wheat middlings, corn, wheat, oats, barley, Kaffir corn, buckwheat, alfalfa, fish, meat, bone, beet pulp, calcium carbonate and salt.	As certified, -----	2421
4.04	-----	7.99	-----	3 32			
4.76	4.00	6.40	10.00	3 50	Meat scraps, oatmeal, wheat bran (with ground screenings not exceeding mill run), alfalfa meal, yellow hominy feed, corn feed meal by-product from the manufacture of hominy and cornmeal by degerminator process with partial extraction of oil, corn gluten feed and ground grain screenings.	As certified, -----	3264
5.04	4.00	8.38	9.00	2 75	Wheat middlings, wheat bran, corn meal, not over 1% salt, alfalfa meal, linseed meal, granulated meat, charcoal.	As certified, -----	2521
4.45	4.00	7.91	9.00	4 00	Wheat middlings, wheat bran, corn meal, alfalfa meal, linseed meal, granulated meat, not over 1% salt with not over 1% charcoal.	As certified, -----	3205
4.40	4.00	8.31	9.00	4 15	Wheat middlings, wheat bran, corn meal, not over 1% salt, alfalfa meal, linseed meal, granulated meat and charcoal.	As certified, -----	3270
4.63	-----	8.20	-----	3 63			
6.88	4-5	7.43	7-9	4.60	Bran, middlings, corn meal, beef scraps, alfalfa meal, charcoal, bloodmeal, beef meal, oil meal and hominy feed.	As certified, -----	3602
3.21	2.00	4.34	4.00	41 00	Corn meal, gluten meal, wheat middlings, wheat bran, oil meal, Henta.	As certified, -----	2440
4.52	3.50	7.10	10.00	3 50	Corn meal, wheat bran, oil meal, alfalfa meal, middlings and meat scraps.	As certified, -----	3380

TABLE IV.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled at	Moisture.	Protein.	
				Found.	Guaranteed.
2517	SMITH BROS., BRADFORD, PA. Egg Mash,* -----	Bradford, Smith Bros., ---	Per ct. 10.38	Per ct. 18.75	Per ct. 15.00
2439	SPANOGLE-YEAGER MILLING CO., LEWISTOWN, PA. Hen-O-La Dry Mash,* -----	Lewis town, Spanogle- Yeager Mlg. Co.	8.01	14.56	10.00
2589	THE TOLEDO GRAIN & MILLING CO., TOLEDO, OHIO. Camp's Red Ball Egg Mash, -----	New Kensington, J. A. Hawk.	8.96	15.75	16.00
2683	GEORGE WALTER & SONS, BUT- LER, PA. Byrite Egg Mash, -----	Butler, Geo. Walter & Sons.	9.80	16.75	18.00
2418	WEAVER & BERKEY, WINDBER, PA. Poultry Mash,* -----	Windber, Weaver & Ber- key.	9.91	23.94	15.00
ANIMAL BY-PRODUCTS.					
3320	THE AMERICAN AGRICULTURAL CHEMICAL CO., NEW YORK, N. Y. Protox Pure Ground Meat Scraps,----	Troy, Farmers' & Con- sumers' Commercial Union.	7.20	53.94	55.00
2687	Protox Pure Ground Meat Scraps,----	Greensburg, McFarland Supply Co.	7.71	59.81	55.00
3165	Protox Pure Ground Meat Scraps,----	Oil City, New Model Mill- ing Co.	8.51	53.31	55.00
2821	Protox Pure Ground Meat Scraps,----	Mechanicsburg, M. C. Dietz & Son.	7.56	56.00	55.00
2966	Protox Pure Ground Meat Scraps,----	Port Allegany, Port Alle- gany Milling Co.	7.52	53.75	55.00
1		Average, -----	7.70	55.36	-----
2744	THE ANIMAL PRODUCTS CO., PHILADELPHIA, PA. Apco Poultry Meat, -----	York, Anderson Bros. & Co.	5.62	44.38	40.00
2544	Apco Poultry Meat, -----	Elizabethtown, Muth Bros.	5.40	50.88	50.00
		Average, -----	5.51	47.63	-----
3533	Tankage,* -----	Paoli, Edward F. Brack- en.	5.33	40.69	-----

*Not registered

FEEDING STUFFS COLLECTED IN 1917.—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct. 4.58	Per ct. 4.00	Per ct. 6.79	Per ct. 12.00	\$ 2 50	Corn meal, brown middlings, alfalfa meal, meat scraps, oil meal, gluten feed, bran and charcoal.	Corn meal, wheat middlings, alfalfa meal, meat scrap, linseed oil meal, wheat bran and charcoal.	2517
2.85	2.00	4.01	4.00	2 15	Corn meal, gluten, wheat middlings, wheat bran, oil meal and Hen-e-ta (sodium, lime, phosphorus and silica.)	As certified, -----	2439
3.56	4.50	7.39	7.50	3 00	Ground wheat middlings, wheat bran, corn meal, gluten feed, alfalfa feed, beef scraps, linseed oil meal and charcoal.	As certified, -----	2589
4.41	4.00	4.23	7.00	3 00	Ground: oats, Kaffir corn, gluten, wheat bran, wheat middlings, oil meal, alfalfa, fish, meat, bone, salt.	As certified, -----	2683
5.93	3.00	5.50	12.00	2 75	Corn chop, wheat middlings, wheat bran, alfalfa meal, oil meal, beef scrap, salt.	As certified, -----	2418
14.62	10.00	1.23	-----	4.50	-----	Meat scrap, -----	3320
12.51	10.00	1.50	-----	4 00	-----	Meat scrap, -----	2687
10.80	10.00	3.16	-----	4 50	-----	Meat scrap, -----	3165
10.52	10.00	1.39	-----	3 75	Made from meat scraps,	As certified, -----	2821
10.03	10.00	3.58	-----	4 00	Made from meat scraps,	As certified, -----	2966
11.70	-----	2.17	-----	4 15			
14.63	11.00	1.06	3.00	3 25	Meat and bone scraps,--	As certified, -----	2744
13.72	11.00	1.19	3.00	3 00	Meat and bone, -----	As certified, -----	2544
14.18	-----	1.12	-----	3 13			
13.91	-----	5.77	-----	5 50	-----	Tankage, -----	3533

TABLE IV.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled at	Moisture.	Protein.	
				Found.	Guaranteed.
2678	THE BERG CO., PHILADELPHIA, PA. Berg's 3 Medal Poultry Meat, -----	Butler, H. J. Klingler & Co.	Per ct. 6.18	Per ct. 39.69	Per ct. 40-55
2721	Berg's 3 Medal Poultry Meat. -----	York, F. Loucks & Son, --	6.14	35.64	40-55
		Average, -----	6.16	37.67	-----
3334	CONSOLIDATED DRESSED BEEF CO., PHILADELPHIA, PA. Consolidated Beef and Bone Scraps, --	Philadelphia, Ezl. Dunwoody Co.	6.31	42.19	45-50
2498	DARLING & COMPANY, CHICAGO, ILL. Darling's 60% Digester Tankage, -----	Scottdale, J. E. Pitts, ----	9.71	63.44	60.00
2584	Darling's High Protein Meat Scraps, -----	Kittanning, J. A. Gault Co.	7.74	60.94	55.00
2746	JACOB DOLD PACKING CO., BUFFALO, N. Y. Dold Quality Digester Tankage, -----	York, Anderson Bros. & Co.	10.25	66.44	60.00
2808	Dold Quality Digester Tankage, -----	Lock Haven, E. E. Wentz,	8.33	65.63	60.00
		Average, -----	9.29	66.04	-----
2803	Dold Quality Meat and Bone Scrap, --	Lock Haven, F. H. Dyer, --	7.62	51.81	50-55
2813	Dold Quality Meat and Bone Scrap, --	Lock Haven, E. E. Wentz,	7.56	53.00	50.00
		Average, -----	7.59	52.41	-----
3549	EZL. DUNWOODY CO., PHILADELPHIA, PA. Beef Scraps, -----	West Chester, T. S. Golden.	7.17	38.94	40-55
3335	Fish Scraps, -----	Philadelphia, Ezl. Dunwoody Co.	6.87	47.69	35-45
3502	JOHN W. ESHELMAN, LANCASTER, PA. Digester Tankage, -----	Lancaster, John W. Eshelman.	9.75	60.44	60.00
3503	Fish Scraps, -----	Lancaster, John W. Eshelman.	8.67	45.00	45.00
3505	Meat Scraps, -----	Lancaster, John W. Eshelman.	6.50	50.69	50.00
2663	Meat Scraps, -----	Reading, F. S. Wertz & Son.	6.14	52.19	50.00
		Average, -----	6.32	51.44	-----
3496	THE FRITZ COMPANY, PHILADELPHIA, PA. Meat and Bone Scrap, -----	Lancaster, John W. Eshelman.	5.30	40.13	40.00
2647	Quaker City Quality Brand Meat and Bone Scraps for Poultry.	Phoenixville, W. H. Lenhard.	5.95	52.19	50.00
3448	Quaker City Special Brand Meat and Bone Scraps.	Gettysburg, J. W. McIlhenny.	5.82	37.00	40.00
3457	Quaker City Special Brand Meat and Bone Scraps.	Gettysburg, C. M. Wolf, --	5.66	42.38	40.60
		Average, -----	5.74	39.69	-----
3435	MORRIS & COMPANY, CHICAGO, ILL. Big Brand Meat Meal, -----	Claysville, D. M. Campsey, Jr.	5.28	49.81	50.00
3434	Big Brand Meat Meal Digester Tankage.	Claysville, D. M. Campsey, Jr.	5.28	60.62	60.00

FEEDING STUFFS COLLECTED IN 1917.—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct. 12.49	Per ct. 11-15	Per ct. 1.87	Per ct. 1-3	\$ 3 15	-----	Meat and bone scrap,	2678
13.26	11-15	2.32	1-3	3.00	-----	Meat and bone scrap,	2721
12.88	-----	2.09	-----	3 08	-----		
13.67	12.00	0.99	2.00	88 00	-----	Beef and bone scrap,	3334
6.12	0.50	2.09	3.00	3 00	Meat products, -----	As certified, -----	2498
5.00	0.50	2.23	3.00	3 75	Meat products, -----	As certified, -----	2584
7.55	8.00	3.15	5.00	3.25	-----	Digester tankage, -----	2746
8.22	8.00	2.89	5.00	3.50	-----	Digester tankage, -----	2808
7.89	-----	3.02	-----	3 38	-----		
8.14	8.00	1.79	5.00	3 50	Manufactured from scraps of meat cooked and dried.	As certified, -----	2803
8.65	8.00	1.29	5.00	3 50	Scraps of meat cooked and dried.	As certified, -----	2813
8.40	-----	1.54	-----	3 50	-----		
13.31	10-15	2.85	-----	5.00	-----	Beef scrap, -----	3549
14.34	7-9	2.54	1-3	88 00	-----	Fish scrap, -----	3335
4.45	8.00	3.79	5.00	4.70	-----	Digester tankage, -----	3502
2.25	2.00	0.85	1.00	4 35	-----	Fish scrap, -----	3503
15.00	8.00	1.29	3.00	4 75	-----	Meat scrap, -----	3505
11.40	8.00	0.99	3.00	3 50	-----	Meat scrap, -----	2663
13.20	-----	1.14	-----	4 13	-----		
13.17	10.00	1.59	2.00	4 25	-----	Meat and bone scrap,	3496
12.63	10.00	0.31	2.00	3 75	Meat and bone scraps,--	As certified, -----	2647
14.14	10.00	1.24	2.00	4 25	Meat and bone scraps,--	As certified, -----	3448
14.10	10.00	1.11	2.00	4 50	Meat and bone scraps,--	As certified, -----	3457
14.12	-----	1.17	-----	4 38	-----		
9.11	8.00	2.78	-----	6 00	-----	Meat meal, -----	3485
9.39	8.00	2.94	5.00	5 70	Meat products, -----	As certified, -----	3434

TABLE IV.—ANALYSES OF SAMPLES OF*

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled at	Moisture.	Protein.	
				Found.	Guaranteed.
3486	Big Brand Meat Scraps for Poultry, THE NICKEL PLATE ELEVATOR CO., CLEVELAND, OHIO.	Claysville, D. M. Campsey, Jr.	Per ct. 4.92	Per ct. 58.69	Per ct. 55.00
3587	Economy Digester Tankage, ----- THE POULTRY BREEDERS' SUP- PLY CO., OGONTZ, PA.	Harmony, Harmony Cereal Mills.	8.07	62.69	60.00
2580	Beef Scraps,* ----- QUAKER CITY MANUFACTURING CO., PHILADELPHIA, PA.	Kittanning, Wm. Gates Estate.	7.15	43.31	50.00
2830	Quaker City Quality Brand Meat and Bone Scraps.	Mechanicsburg, A. B. Har- nish.	5.92	41.06	50.00
2727	Quaker City Quality Brand Meat and Bone Scraps.	York, H. H. Smyser, ----	5.61	46.10	50.00
2834	Quaker City Quality Brand Meat and Bone Scraps.	Carlisle, W. S. Stuart, --	5.66	46.06	50.00
		Average, -----	5.73	44.41	-----
3285	J. D. RAMSAY, PITTSBURGH, PA. J. D. Ramsey's Meat Meal Tankage,	Hickory, J. M. Caldwell,	4.08	31.19	35.00
2632	J. D. Ramsey's Meat Meal Tankage,	West Bridgewater, W. W. McCullough.	3.21	37.00	35.00
2925	J. D. Ramsey's Meat Meal Tankage,	Punxsutawney, Mahoning Valley Milling Co.	4.05	34.13	35.00
		Average, -----	3.78	34.11	-----
2472	ROBERT A. REICHARD, ALLEN- TOWN, PA. Reichard's Bone Meal, -----	Johnstown, Johnstown Milling Co.	6.82	27.38	25-30
2536	Reichard's High Grade Beef Scraps,---	Hummelstown, Jos. Burk- holder.	5.63	61.25	55.00
2419	Reichard's High Grade Beef Scraps,---	Windber, Weaver & Ber- key.	5.12	57.06	55.00
		Average, -----	5.37	59.16	-----
3260	Reichard's Standard Beef Scrap, ----	E. Mauch Chunk, Stemler Bros.	7.37	46.06	45.00
2766	EDWARD RUGH, GREENSBURG, PA. Tankage, -----	Greensburg, W. S. Barn- hart.	7.00	45.13	-----
2454	WM. G. SCARLETT & CO., BAL- TIMORE, MD. Oriole Brand High Grade Beef Scraps,	Huntingdon, Huntingdon Milling Co.	7.38	50.56	50-55
3504	JOHN F. STANLEY CO., INC., NEW YORK, N. Y. Stanley's High Protein Meat Scraps for Poultry.	Lancaster, John W. Eshel- man.	6.62	41.88	45.00
3008	SWIFT & CO., NEWARK, N. J. Swift's Digester Tankage, -----	Palmyra, John B. Curry's Sons.	6.42	59.31	60.00
2652	Swift's Digester Tankage, -----	Phoenixville, W. H. Len- hard.	6.18	61.73	60.00
2665	Swift's Digester Tankage, -----	Reading, F. S. Wertz & Son.	10.44	66.56	60.00
		Average, -----	7.68	62.51	-----
2745	Swift's Laymore Meat Scraps, -----	York, Anderson Bros. & Co.	5.45	46.94	45.00

*Not registered.

FEEDING STUFFS COLLECTED IN 1917.—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct. 8.81	Per ct. 8.00	Per ct. 2.94	Per ct. 3.00	\$ 6 50	Meat products, -----	As certified, -----	3436
9.08	8.00	1.44	-----	5 25	-----	Digester tankage, -----	3587
12.69	10-12	1.32	1-2	3 00	-----	Beef and bone scrap, --	2580
13.91	10.00	0.53	2.00	3 50	Meat and bone scraps,--	As certified, -----	2830
13.34	10.00	0.77	2.00	-----	Meat and bone scraps,--	As certified, -----	2727
14.91	10.00	0.73	2.00	3 25	Meat and bone scraps,--	As certified, -----	2834
14.05	-----	0.67	-----	3 38	-----	-----	-----
12.34	14.00	3.80	-----	2 50	-----	Tankage with large amount of hair.	3285
12.44	14.00	2.94	-----	2 25	-----	Meat meal tankage, ----	2632
12.85	14.00	3.46	-----	3 00	-----	Meat meal tankage, ----	2925
12.41	-----	3.40	-----	2 58	-----	-----	-----
15.50	5-6	2.88	2-3	3 25	-----	Bone meal, -----	2472
17.45	10.00	1.21	2.00	3 50	-----	Beef scrap, -----	2536
16.37	10.00	1.59	2.00	3 50	-----	Beef scrap, -----	2419
16.91	-----	1.40	-----	3.50	-----	-----	-----
10.31	8.00	1.16	4.00	4 50	-----	Beef scrap, -----	3260
15.73	-----	2.27	-----	23 00	-----	Tankage, -----	2766
12.07	12.00	1.39	3.00	3 00	-----	Beef scrap, -----	2454
11.04	10.00	1.46	-----	4 50	-----	Beef scrap, -----	3504
8.44	6.00	1.86	3.00	3 90	-----	Digester tankage, -----	3008
7.78	6.00	1.64	3.00	3 50	-----	Digester tankage, -----	2652
6.30	6.00	2.74	3.00	3 25	-----	Digester tankage, -----	2665
7.51	-----	2.08	-----	3.55	-----	-----	-----
12.87	8.00	0.88	3.00	3 35	-----	Beef scrap, -----	2745

TABLE IV.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled at	Moisture.	Protein.	
				Found.	Guaranteed.
3532	Swift's Laymore Meat Scraps, -----	Paoli, Edward F. Brack-	Per ct. 6.22	Per ct. 46.00	Per ct. 45.00
3573	Swift's Laymore Meat Scraps, -----	en. Kane, Kane Milling & Gro-	6.36	46.06	45.00
		cery Co.			
		Average, -----	6.01	46.33	-----
2504	THE VAN IDERSTINE CO., LONG ISLAND CITY, N. Y. Darling's High Protein Meat Scraps for Poultry.	Harrisburg, Hoffer & Garman.	8.39	63.69	55.00
	CONDIMENTAL STOCK AND POUL-				
	TRY FOODS.				
2804	CHAMPION MANUFACTURING CO., BARTO, PA. Chickseat, -----	Lock Haven, F. H. Dyer,	7.90	12.19	12.60
2844	GUARANTEE FOOD CO., OF PENNA., LEWISBURG, PA. Keystone Stock Conditioner, -----	Lewisburg, Guarantee Food Co. of Penna.	11.18	8.19	-----
3588	Keystone Stock Conditioner, -----	Lewisburg, Guaranteed Food Co. of Penna.	13.76	4.94	-----
		Average, -----	12.47	6.57	-----
2882	PRATT FOOD CO., PHILADEL-				
	PHIA, PA. Pratt's Baby Chick Food, -----	Carnegie, Richey & Mc-	10.42	12.50	12.00
		Farland.			
3132	SECURITY REMEDY CO., MINNE-				
	APOLIS, MINN. Security Calf Food Compound, -----	Montgomery, C. L. Her-	10.37	15.69	-----
		rold.			
2600	Security Calf Food Compound, -----	Greensburg, D. F. Kilgore, & Co.	9.23	14.50	9.80
		Average, -----	9.80	15.10	-----

FEEDING STUFFS COLLECTED IN 1917.—Concluded.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct. 12.99	Per ct. 8.00	Per ct. 1.42	Per ct. 3.00	\$ 5 50	-----	Beef scrap, -----	3532
11.43	8.00	1.02	3.00	5 00	-----	Beef scrap, -----	3373
12.43	-----	1.10	-----	4.62	-----	-----	-----
10.97	5.00	1.57	3.00	3.50	-----	Beef scrap, -----	2504
2.84	2.00	2.43	2.00	8 33	Dried bone meal, dried beef and bone, baked kiln dried rolled wheat, calcite, cracked wheat, hominy, sulphur, foenugreek, ginger.	Dried bone meal, dried beef and bone, baked kiln dried rolled wheat, oyster shells, cracked wheat, hominy, sulphur, foenugreek and ginger.	2804
4.53	-----	26.50	-----	11 00	-----	Buckwheat hulls, cocoa shell meal, ground beans and peas, foenugreek, anise seed, capsicum, sulphur, ferrous sulphate and epsom salts.	2844
1.62	-----	32.43	-----	10 00	Flowers of sulphur, foenugreek, sulphur of iron, sulphate of magnesia, gentian, capsicum, anise seed, ground ginger, ground cocoa shells and buckwheat hulls.	As certified, -----	3588
3.68	-----	29.46	-----	10 50	-----	-----	-----
4.39	4.50	2.65	3.00	10.00	Hulled oats, corn meal, wheat middlings, epsom salts, bone meal, cooked wheat, pepper, gentian, millet, ginger, rape, caraway shell meal.	As certified, -----	2882
4.27	-----	5.47	-----	23 00	-----	Wheat middlings, wheat flour, starch, foenugreek, ginger, anise seed, powdered milk, iron oxide, sugar and salt.	3132
5.11	4.50	3.99	6.00	4 00	St. John's bread, foenugreek, anise, oxide iron, salt, starch, ginger, flour, sugar, sulphate of iron, middlings and powdered milk.	As certified, -----	2699
4.69	-----	4.73	-----	13 50	-----	-----	-----



